

Ephemerides &c.

1705.

1724

Apollo Anglicanus,
THE
ENGLISH APOLLO,

Assisting
All Persons in the Right Understand-
ing of this Years Revolutions, as also of
Things past, present, and to come.

With necessary Table, plain and useful.

A twofold Kalendar, viz. *Julian* or *English*,
and *Gregorian* or *Foreign* Computations, more
plain and full than any other, with the Rising and
Setting of the Sun, the nightly Rising and Set-
ting of the Moon, and also her Southing, exactly
calculated for every Day. Of general Use for
most Men.

Being the First after *Bissexile*, or *Leap-Year*.

To which is added the Moon's Application to the
fixed Stars: With the Calculation of the Eclipses: With
a Discourse of the Ebbing and Flowing of the Sea; and the
probable Cause thereof: Also Rules and Tables for the mea-
suring of Timber: With other things both pleasant, useful,
and necessary.

Calculated according to Art, and fitted to the Me-
ridian of *Leicester*, whose Latitude is 52 Degrees, 41 Mi-
nutes, exactly fitting all the middle Counties of *England*, and
without sensible Error the whole Kingdom.

By *RICHARD SAUNDER*,
Student in the *Physical* and *Mathematical* Sciences.

LONDON, Printed by *J. Wilde*, for the
Company of *STATIONERS*, 1705.

The *Julian* or Old Account used in *Engl.* { 1705. } The *Gregorian* or New Style used beyond Sea

	15	The Golden Number	
	6	The Dominical Letters	
	15	The Epact	
February	18	Shrove-Sunday	February
May	17	Ascension-Day	May
May	27	Whit-Sunday	May
December	2	Advent-Sunday	November

A Table of the Terms and their Return

Hilary Term begins *January 23*, and ends *Feb.*

<i>Essoin-days.</i>		<i>Except.</i>	<i>Ret. Brev.</i>	<i>Appear.</i>
O ^o ab. Hilary. Jan.	20	January 22	Jan. 22	Jan. 23
Quind. Hilary. Jan.	27	January 29	Jan. 29	Jan. 30
Craftin. Purif. Feb.	3	February 5	Febr. 5	Febr. 6
O ^o ab. Purif. Feb.	9	February 10	Febr. 10	Febr. 12

Easter Term begins *April 25*, and ends *May*

Quind. Pasch. April	23	April 24	April 24	April 25
Tres Pasch. April	30	May 1	May 1	May 2
Mens. Pasch. May	7	May 8	May 8	May 9
Quinq. Pasch. May	14	May 15	May 15	May 16
Craft. Ascens. May	18	May 19	May 19	May 20

Trinity Term begins *June 8*, and ends *June*

Craft. Trin. June	4	June 5	June 6	June 8
O ^o ab. Trin. June	1	June 12	June 12	June 13
Quind. Trin. June	18	June 19	June 19	June 20
Tres. Trin. June	25	June 26	June 26	June 27

Michaelmas Term begins *Octob. 23*, ends *Nov.*

Tres Mich. Octob.	20	Octob. 22	Octob. 22	Octob. 23
Mens. Mich. Octob.	27	Octob. 29	Octob. 29	Octob. 30
Craft. Anim. Nov.	3	Novemb. 5	Nov. 5	Nov. 6
Craft. Mart. Nov.	12	Novemb. 13	Nov. 14	Nov. 15
O ^o ab. Mart. Nov.	9	Novemb. 20	Nov. 20	Nov. 21
Quind. Mart. Nov.	6	Novemb. 27	Nov. 27	Nov. 28

A Table of the KINGS and QUEENS of England, since the Conquest.

	Born Anno	Began to reign.	Reigned Since their Reigns Y. M.	ended.	Buried
William 1	1029	1066, Oct. 14	20 11	1088 September 9	Canterbury
William 2	1056	1087, Sep. 9	12 11	1105 August 2	Winchester
Henry 1	1068	1100, Aug. 2	35 4	1135 Decem. 1	Reading
Stephen	1105	1135, Dec. 1	18 11	1155, Octob. 23	Worcester.

The Saxon Line restor'd.

Henry 2	1132	1154, Oct. 25	35 9	1189, July 6	Worcester
Richard 1	1155	1189, July 6	29 9	1206, April 6	Worcester
John 1	1165	1199, April 6	17 6	1216, Octob. 19	Worcester
Henry 3	1207	1216, Oct. 19	56 1	1272, Nov. 16	Westmin.
Edward 1	1239	1272, No. 16	34 8	1307, July 7	Westmin.
Edward 2	1283	1307, July 7	19 7	1327, Jan. 25	Glocester.
Edward 3	1312	1327, Jan. 25	51 5	1377, June 21	Westmin.
Richard 2	1366	1377, Jun. 21	22 3	1399, Sept. 29	Westmin.

The Line of Lancaster.

Henry 4	1367	1399, Sep. 29	13 6	1422, Mar. 20	Canterb.
Henry 5	1386	1412, Mar. 20	9 4	1422, Aug. 31	Westmin.
Henry 6	1421	1422, Aug. 31	38 6	1471, Mar. 4	Windfor

The Line of York.

Edward 4	1442	1461, Mar. 4	25 1	1483, April 9	Winchest
Edward 5	1471	1483, Apr. 9	0 1	1483, June 18	Not kno.
Richard 3	1471	1483, Jan. 18	12 2	1483, Aug. 2	Leicestr.

The Families United.

Henry 7	1455	1485, Aug. 22	23 6	1509, April 22	Westmin.
Henry 8	1491	1509, Apr. 22	37 10	1547, Jan. 28	Windfor
Edward 6	1537	1547, Jan. 28	6 5	1553, July 6	Westmin.
Mary 1	1518	1553, June 6	5 4	1558, Nov. 17	Westmin.
Elizab. 1	1533	1558, No. 17	44 4	1603, March 24	Westmin.

The Union of the two Kingdoms.

James 1	1566	1602, Ma. 24	22 0	1625, March 27	Westmin.
Charles 1	1600	1625, Ma. 27	23 11	1648, Janu. 30	Windfor
Charles 2	1630	1648, Jan. 30	36 0	1685, Februar. 6	Westmin.
James 2	1633	1684, Feb. 6	4 0	1688, Febru. 13	S. Germai.
William & Mary 2	1650	1689, Feb. 13	13 1	1702, March 8	Westmin.
	1662		5 10	1702, Decemb. 28	Westmin.
Anne	1665	1702, Mar. 8		Whom God grant long to Reign.	

You here may see a Race of Monarchs Great,
 Each for a time did fill the Royal Seat,
 Then left the Throne : You see it fill'd again,
 I pray God our Queen long time o'er us may reign,
 Her Subjects multiply, Her Foes decrease,
 Her Kingdom have Prosperity and Peace.

A Table shewing the time of the Moon's coming to the South in Hours and Minutes, every day for the first six Months of this Year 1705.

Days.	Jan.		February		March		April		May		June	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
1		1M.37		2M.15		1M. 0		2M. 1		2M.45		4M.2
2	2	22	3	0	1	44	2	52	3	48	5	2
3	3	8	3	40	2	22	3	46	4	50	6	1
4	3	50	4	27	3	13	4	46	5	46	6	5
5	4	28	5	12	4	0	5	45	6	38	7	3
6	5	6	6	4	4	55	6	44	7	30	8	3
7	5	49	6	55	5	46	7	40	8	18	9	2
8	6	29	7	56	6	45	8	35	9	0	10	1
9	7	18	8	58	7	47	9	29	9	49	11	
10	8	12	9	59	8	48	10	15	10	41	12	
11	9	11	11	0	9	45	11	7	11	36	1A.	1A
12	10	14	12	6	10	43	12	2	12	32	1	2
13	11	17	0A.53		11	39	12	56	1A.33		2	2
14	12	21	1	48	11	18	1A.49		2	28	3	3
15	1A.22		2	39	1A.10		2	43	3	22	4	4
16	2	20	3	32	2	6	3	39	4	14	4	4
17	3	9	4	25	3	2	4	34	5	0	5	5
18	3	55	5	8	4	0	5	27	5	47	6	6
19	4	44	6	0	4	51	6	20	6	27	6	7
20	5	32	6	53	5	47	7	4	7	8	7	8
21	6	22	7	44	6	42	7	47	7	50	8	9
22	7	10	8	37	7	30	8	30	8	30	9	10
23	8	2	9	26	8	16	9	10	9	16	10	11
24	8	55	10	16	9	1	9	54	9	58	11	12
25	9	46	11	0	9	47	10	39	10	41	12	OM.
26	10	40	11	44	10	29	11	22	11	37	OM.	OM.
27	11	30	12	23	11	12	12	8	12	33	1	1
28	12	20	0M.23		11	52	0M. 8		0M.33		2	2
29	0M.20				12	36	0	57	1	37	3	3
30	0	56			0M.36		1	48	2	37	3	4
31	1	36			1	19			3	36		5

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ery da
5.

Table shewing the time of the Moon's coming
to the South in Hours and Minutes, every day
for the last six Months of this Year 1705.

June
H. M.

4M2
5 2
6 1
6 5
7 3
8 3
9 2
10 1
11
12
IA.
1
2
3
4
4
5
6
6
7
8
9
10
11
12
OM.
1
2
3
3

July	August	Septem.	Octob.	Novem.	Decem.
H. M.	H. M.	H. M.	H. M.	H. M.	H. M.
4M36	6M. 2	7M43	8M.14	9A. 7	8M49
5 26	6 53	8 37	9 2	9 46	9 36
6 20	7 48	9 29	9 43	10 25	10 26
7 11	8 44	10 13	10 29	11 10	11 20
8 3	9 39	10 57	11 7	11 56	12 16
8 57	10 23	11 38	11 49	12 45	1A.15
9 50	11 19	12 21	12 29	1A.40	2 12
10 44	12 11	1A. 1	1A 11	2 34	3 9
11 37	0A. 53	1 44	1 58	3 33	4 4
12 35	1 33	2 24	2 45	4 31	4 52
1A 19	2 12	3 7	3 40	5 25	5 44
2 7	2 52	3 48	4 38	6 17	6 19
2 48	3 33	4 45	5 34	7 6	7 12
3 30	4 17	5 39	6 36	7 58	8 8
4 10	5 7	6 38	7 29	8 43	9 0
4 54	5 55	7 36	8 24	9 29	9 52
5 32	6 47	8 35	9 12	10 26	10 49
6 17	7 46	9 34	9 53	11 22	11 50
7 6	8 45	10 32	10 46	12 20	12 50
7 57	9 43	11 26	11 49	OM20	OM.50
8 52	10 44	12 10	12 48	1 11	1 40
9 51	11 41	OM.10	OM.48	2 5	2 28
10 54	12 40	1 5	1 18	3 1	3 15
11 58	OM40	1 58	2 32	3 56	4 0
12 58	1 28	2 51	3 31	4 41	4 40
OM.58	2 14	3 48	4 30	5 28	5 18
1 50	3 10	4 42	5 28	6 10	5 57
2 43	4 5	5 41	6 18	6 50	6 36
3 24	4 58	6 39	7 2	7 28	7 15
4 15	5 54	7 29	7 44	8 8	8 4
5 11	6 48		8 26		8 52

To find the Time of High Water in most Ports of England.

First seek the Moon's Southing on the foregoing Table for your Day, then you may conclude it High-Water at *Southampton*, *Quinborough* and *Portsmouth*, for there the South and North Moons make a High-Water: But when you desire the time of Full Sea in any of the following Coasts, in the ensuing Table, find the name of the Place, and see how many Hours and Minutes be annex'd thereunto in the Column under *H. M.* which added to the time of the Moon's coming to the South, gives the time of High-Water at the Place required.

A Tide Table, with the Names of the Havens.

	H.	M.
<i>Rochester, Malden, Aberdeen,</i>	0	45
<i>Gravesend, Romney, Ramkins,</i>	1	30
<i>London, Tinnmouth, Hartle-pool,</i>	3	0
<i>Erith, Leith, Dunbar, Narbon,</i>	4	30
<i>Newcastle, Falmouth, Humber,</i>	5	15
<i>Lyn, Antwerp, Plimouth, Hull,</i>	6	0
<i>Bristol, Lemon, Foulness,</i>	6	45
<i>Milford, Bridg-water, North-coast,</i>	7	30
<i>Portland, Peterport, Hartflew,</i>	8	51
<i>Dover, Yarmouth, Harwich, Dublin,</i>	10	30
<i>Calais, Rye, Winchelsea, Calshot,</i>	11	15

Example.

The 15th. Day of *March* this Year, it is required to know the Time of High-Water at *London*: By the Table of the Moon's coming to the South, against the 15th. of *March* find the Moon South at 1 ho. 0 min. in the afternoon, then in the Tide-Table above, I find against *London*, 3 ho. 00 min. which being added to 1 ho. 10 min. makes 4 ho. 10 min. the Time of High-Water at *London*, the 15th. Day of *March*, in the Afternoon, the like may be done of any other Day.

Note, That the Tide floweth considerably more at the New and Full Moons, than at the First and Last Quarter: is also the Latitude of the Moon and Winds may alter an hour sooner or later.

Direct

Directions for the subsequent Diary or Almanack.

In the first Column to the left hand, on the left-hand Page you have the Numerical Figures of the days of the Month. In the second Column you have the week days, and the minical Letter.

In the third Column you have the Saints days, and the names of the Planets once a Month; as also the Moons application to the fixed Stars, by which the Afterisms and conjunctions may be easily known to an ingenious eye and understanding.

In the fourth Column the Moons place in the Zodiack, every day at noon.

In the fifth Column the rising and setting of the Moon, with respect to her Latitude.

In the sixth Column the Mutual Aspects of the Planets, and the general state of the Weather.

In the first Column on the Right-hand Page you have the English Account.

In the second Column you have the Roman Account, before now 11 days before ours.

In the third Column the Roman Week days.

In the fourth Column the perfect Roman Kalendar, and its days.

In the fifth Column you have a discourse of the Ebbing and Flowing of the Sea, and the Cause thereof.

The sixth, seventh and eighth Columns, the utmost to the Right hand, shew you the daily Rising and Setting of the

On the top of the Left hand Page is set the New and Full Moons, with the first and last Quarters.

On the top of the Right hand Page is set the Rising, South- and Setting of the Planets.

January hath xxxi days.

- ☾ Last Quarter the 7th. day, at 6 in the morning.
- New Moon the 14h. day, at 5 in the morning.
- ☾ First Quarter the 20th. day, at 10 at night.
- Full Moon the 28th. day, at 8 at night.

1	a	New-Years-day.	leo	19	6	A.	19	1	Some Frost at beginning,
2	b	☾ n. Terg.	Leon.	virgo	17		29		holds not; no
3	c	☾ n. Cau.	Leonis	virgo	13	8	42		some drifling R
4	d	☾ n. Aus.	Ala	virgo	25	9	48		* ♀ or Snow
5	e	☾ n. Vindemi.	libra	7	11		1		expected, & ple
6	f	Epiphany	libra	19	12		13		ty with M. fts a
7	g	☼ Sun. past Epi.	scorp.	10		M.	13		☐ ♀ ☐ ☐
8	a	☾ n. Lanx Bor.	scorp.	14	1		20		♂ ♀ ♂ Δ ♀
9	b	☼ Sun in Aquarius	scorp.	27	2		41		raw weather, n
10	c	☾ n. Cor.	Scorp.	sagit.	11	4	6		clearing, then
11	d	☾ n. Sin.	Man.	♄	sagit.	25	5	28	and Storms follo
12	e	☾ n. Cap.	Sagit.	capri.	10	6	39		but about the n
13	f	Hilary	capri.	25	7		37		M. foggy, cold
14	g	☼ Sun. past Epi.	aqua.	10		New	●		close Weat. t
15	a	♀ ♀ o. o.	aqua.	25	5	A.	49		follows frosty
16	b	♄ ♀ 16.	pisces	10	7		21		ther, with W
17	c	♄ ♀ 4.	pisces	25	8		51		☐ ♀ ♀ and Sn
18	d	♀ ♀ 16.	aries	9	10		18		and the Frosts
19	e	♀ ♀ 28.	aries	23	11		42		pected to incre
20	f	☾ n. Manker	taur.	7	1		2		about this ti
21	g	☼ Sun. past Epi.	taur.	20	1	M.	2		and to conti
22	a	☾ n. Aldebaran	gem.	3	2		20		till about
23	b	Term begins	gem.	15	3		28		Full Moon, t
24	c	☾ n. Dex. Hu. Au.	gem.	27	4		42		Δ ♀ ☐ we
25	d	Convert. S. Paul	canc.	10	5		44		expect high V
26	e	☾ n. Pollux	canc.	22	6		36		the Frost yi
27	f	☾ n. Atellus.	leo	4	7		15		ing, with ple
28	g	☼ Sun. past Epi.	leo	16		Full	●		of Snow or R
29	a	☾ n. Cor.	Leonis	leo	28	5	13		♂ ☐ ♀ & unc
30	b	K. Char. Mart.	virgo	9	6		21		stant to the e
31	c	☾ n. Caud.	Leon.	virgo	21	7	28		

Moon's Rising.

Moon's Setting.

Mo. Rif.

rom. St. days.
rom. Kalendar.
rom. Accom.

12 e Sa
13 f H
14 g F
15 a M
16 b M
17 c A
18 d a
19 e V
20 f F
21 g A
22 a V
23 b E
24 c
25 d
26 e
27 f
28 g
29 a
30 b
31 c
Febr.
21 e
3 f
4 g
5 a
6 b
7 c
8 d
9 e
10 f
11 g
1

January 1705.

Saturn is South betwixt 5 and 6 at Night, and sets between 12 and 1 in the morning. *Jupiter* at the beginning is South between 9 and 10 at Night, at the end he is South between 7 and 8. *Mars* riseth with *Saturn*, and sets a little after him. *Venus* sets between 7 and 8 at Night. *Mercury* sets a little after the Sun.

Kom. St. days.
Kom. Kalendar.
Korin. Accom.

12	e	Satyrus	O F the Tides, or Eb	18	7	3	53
13	f	Hillary	bing and Flowing of	2	6		54
14	g	Felix	the Sea, I treated in my last,	3	4		56
15	a	Mauritius	and shewed the Improbab.	4	2		58
16	b	Marcellus	bility of the Moons being	5	8	1	3 59
17	c	Anthony	the Cause thereof; and	6	7	5	4 1
18	d	a Sun. p. Ep.	that by the Earths Motior	7	5	8	2
19	e	Wolstan	there seem'd a necessity of	8	5	6	4
20	f	Fab & Seb.	such Ebbing and Flowing.	9	5	5	5
21	g	Agnes	I shall now mention some	10	5	3	7
22	a	Vincent	of the chief Points then	11	5	2	8
23	b	Emerent	treated of, and proceed :	12	5	0	10
24	c	Timothy	As to the Moon's being	13	4	9	11
25	d	Con. s. Paul	Cause of the Ebbing and	14	4	7	13
26	e	Polycarp	Flowing of the Waters,	15	7	4	6 14
27	f	Chrysoft.	there being some Connex	16	4	4	16
28	g	Car. Mig.	ion between her Course	17	4	3	17
29	a	Valerius	and the Tides, it may as	18	4	1	19
30	b	Adelgund.	well be said, the Tides	19	3	9	21
31	c	Saturn	move the Moon, as the	20	7	3	8 4 22
Febr.	d	a Sun. p. Ep.	Moon the Tides ; For she	21	3	6	24
2	e	Par. V. Mar.	is to this Globe (which is	22	3	4	26
3	f	Blase	a considerable Part there	23	3	3	27
4	g	Veronica	of Water) as the Pendu	24	3	1	29
5	a	Agatha	lum to the Clock, and as	25	7	2	9 4 31
6	b	Dorothea	this Pendulum is lengthen	26	2	7	33
7	c	Zachary	ed or shortened, so he	27	2	5	35
8	d	Septuages.	Motion is diminished or	28	2	3	37
9	e	Apollon	increased, as plainly ap	29	2	1	39
10	f	Scholartia	pears by her different Mo	30	7	1	9 4 41
11	g	Euphrosin.	ions when in Apogæon,	31	1	7	43
1			and	1			1

February hath xxviii Days.

- ☾ Last Quarter the 5 day, at 9 at night.
- New Moon the 12th. day, at 3 in the afternoon.
- ☽ First Quarter, the 19th. day, at 11 in the morning.
- Full Moon the 27th. day, at 3 in the afternoon.

Week Da.	Festival & Saints	The Days place in the zodiac	The Rising from the full to the change, & setting fr. the cha. to the full	The mutual Aspect of the Planets, with the Various Constitution of Air, and change of Weather
1	Dn. Vindemiast. libra	8 A. 40		windy and stormy
2	Purif. V. Mary libra	15 9 48		at the beginning
3	Dn. Spica Virg. libra	28 11 8		then follow some
4	Septuagesima scorp.	10 12 23	Moon's Rising.	light Frosts, with
5	Dn. Sin. Ma. Op. scorp.	23 0 M. 23		☿ ♀ cold Wind
6	Dn. Cor. Scorpi. sagit.	6 1 45		☿ ♂ ♀ about the
7	Dn. dex. Th. Op. sagit.	20 3 4		5th. day, the
8	Sol in Pisces capr.	4 4 22		* ♄ ☉ some moderate
9	Dn. Cap. Sagit. capr.	18 5 26		Frosts re
10	Dn. Lu. in M. ♊	aquar. 3 6 17		* ♀ ♀ turn, and
11	Sexagesima aquar.	18 6 56		continue till about
12	Term ends pisces	3 New Moon		the New Moon
13	h ☿ 2. pisces	18 6 A. 18		* ♄ ♀ then some
14	Valentine. aries	3 7 42		windy and rainy
15	♄ ♀ 17. aries	18 9 11		Weather is expected,
16	♂ ☿ 22. taur.	2 10 39		follow'd with
17	♀ ♀ 21. taur.	16 12 4		close foggy Weather;
18	Quinquagesima taur.	29 0 M. 4		then some
19	♀ ♀ 16. Gem.	12 1 25	Moon's Setting.	light Frosts, yet
20	Shrove Tuesday Gem.	25 2 37		generally moderate
21	Ash-Wednesday Can.	7 3 50		☿ ♀ rate for
22	Dn. Cast. & Pol. Can.	19 4 38		the Season, yet
23	Dn. Asellus leo	15 12		some brisk Gale
24	S. Matthias leo	13 5 51		☿ ♀ ☉ of Wind
25	Quadragesima leo	25 6 12		about this Time
26	Dn. Ter. Leonis. virgo	7 6 30		lowed with Rain
27	Dn. Cand. Leon. virgo	18 Full Moon		Snow, and at the
28	Ember Week libra	0 6 A. 36		♄ ♄ ♀ of the Moon is expected frosty

February 1795.

Saturn at the beginning sets about 11 at night, but at the end he sets with *Venus* betwixt 9 and 10. *Jupiter* is South betwixt 6 and 7 at night, and sets between 2 and 3 in the morning. *Mars* sets a little after midnight. *Mercury* rises before the Sun, but can scarcely be seen.

Of the Tides or Ebbing and Flowing of the Sea.

			M.D.	☉	☾
12	a	Eufrece	17	16	4 44
13	b	Eustasius	2	14	46
14	c	Valentine	3	12	48
15	d	Sexagesima	4	10	50
16	e	Polycarp	5	8	52
17	f	Dionysius	6	6	54
18	g	Concordia	7	4	56
19	a	Romin.	8	2	4 58
20	b	Mildred.	9	0	5 00
21	c	Esaia	10	58	2
22	d	Quinquagesima	11	56	4
23	e	Serenus	12	54	6
24	f	S. Mathias	13	52	8
25	g	Asht. Wedn.	14	50	10
26	a	Simeon	15	48	12
27	b	Nestor	16	46	14
28	c	Roman	17	44	5 16
Mar.	d	Quadragesima	18	42	18
2	e	Chad, B.	19	40	20
3	f	Cunegund	20	38	22
4	g	Adrian	21	36	24
5	a	Phocas	22	34	5 26
6	b	Frodelin	23	32	28
7	c	Perpetua	24	30	30
8	d	Reminiscence	25	27	33
9	e	Apolon	26	25	35
10	f	Agapite	27	23	37
11	g	Oswin	28	20	5 40
		she			

Rom. Kalendar.
Foreign Accom

- | | |
|-----|---|
| 12 | a |
| 13 | b |
| 14 | c |
| 15 | d |
| 16 | e |
| 17 | f |
| 18 | g |
| 19 | a |
| 20 | b |
| 21 | c |
| 22 | d |
| 23 | e |
| 24 | f |
| 25 | g |
| 26 | a |
| 27 | b |
| 28 | c |
| 29 | d |
| 30 | e |
| 31 | f |
| 32 | g |
| 33 | a |
| 34 | b |
| 35 | c |
| 36 | d |
| 37 | e |
| 38 | f |
| 39 | g |
| 40 | a |
| 41 | b |
| 42 | c |
| 43 | d |
| 44 | e |
| 45 | f |
| 46 | g |
| 47 | a |
| 48 | b |
| 49 | c |
| 50 | d |
| 51 | e |
| 52 | f |
| 53 | g |
| 54 | a |
| 55 | b |
| 56 | c |
| 57 | d |
| 58 | e |
| 59 | f |
| 60 | g |
| 61 | a |
| 62 | b |
| 63 | c |
| 64 | d |
| 65 | e |
| 66 | f |
| 67 | g |
| 68 | a |
| 69 | b |
| 70 | c |
| 71 | d |
| 72 | e |
| 73 | f |
| 74 | g |
| 75 | a |
| 76 | b |
| 77 | c |
| 78 | d |
| 79 | e |
| 80 | f |
| 81 | g |
| 82 | a |
| 83 | b |
| 84 | c |
| 85 | d |
| 86 | e |
| 87 | f |
| 88 | g |
| 89 | a |
| 90 | b |
| 91 | c |
| 92 | d |
| 93 | e |
| 94 | f |
| 95 | g |
| 96 | a |
| 97 | b |
| 98 | c |
| 99 | d |
| 100 | e |

1	D	David	libra 137	A. 48	frosty, with co
2	E	Chad.	libra 259	3	sharp Winds, an
3	F	D n. Lanx Aust.	scorp. 730	15	about the 4th.
4	G	Sund. in Lent	scorp. 2011	36	5th. days, for
5	A	D n. Cor. Scorpi.	agit. 312	52	storms of Rain
6	B	n. Dex. bu. Op.	agit. 160	M. 52	Snow, and abo
7	C	D n. Dex. Man	agit. 292	10	the 9th. or 10
8	D	D n. Cap. Sagit	capr. 133	22	day, some hi
9	E	Sol in Arice	capr. 274	17	* ♀ ☐ ♂
10	F	D n. Sir. Hum.	aqua. 125	3	Winds, follow
11	G	Sund. in Lent	aqua. 265	28	with drizzling R
12	A	♂ ♀ 5.	pisces 125	49	and about t
13	B	♂ ♀ 19.	pisces 27	New	New Moon for
14	C	♂ ♀ 7.	aries 116	A. 49	Frost, with c
15	D	♂ ♀ 21.	aries 268	20	Winds, and abo
16	E	♂ ♀ 15.	taur. 119	47	the 17th. Rain
17	F	D n. Pleiades	taur. 2411	12	expected, and
18	G	Mid-Lent-Sund.	gem. 812	32	bout the 20th
19	A	D n. Dex. Hu. A	gem. 210	M 32	☐ ♀ ♀ 21 da
20	B	D n. Luc. ped. II	canc. 31	41	high Winds a
21	C	Benedict	canc. 162	41	* ☉ ♂ turbul
22	D	D n. Ca. & Poli	canc. 283	30	Weather, follo
23	E	D n. Afellos	leo 94	4	ed with Ra
24	F	D n. Cor. Leon.	leo 214	27	and is feared n
25	G	Ann. B. V. Mary	virg. 34	44	continue stor
26	A	D n. Caud. Leon.	virg. 155	2	* ♀ ♀
27	B	D n. Sin. Ala	virg. 275	18	more Rain t
28	C	D n. Vindemiati.	libra 95	27	is desired by
29	D	D n. Spica Virg	libra 22	Full	seedsman; but the
30	E	D n. Lanx Aust.	scorp. 48	A. 8	'tishop'd may pro
31	F	D n. Lanx Bore	scorp. 179	32	* ☉ ♀ dry w

March 1705.

Saturn sets about 9 at Night, all the middle of the Month. *Jupiter* sets about 1 in the Morning. *Mars* sets about midnight, *Venus* sets between 9 and 10 at night, *Mercury* still rises before the Sun, but cannot be seen.

Foreign Accom.	Rom. Calendar.	Rom. St. days						
12	a	Gregory	the thereby attracteth the	1	6	17	5	43
13	b	Euphrasia	Waters of the Seas One	2		15		45
14	c	Eutychus	hundred forty four thou-	3		12		48
15	d	Oculi	sand times as much as the	4		10		50
16	e	Hilarius	Moon doth, and there	5		8		52
17	f	Gertrude	fore the Moon attracting	6		6		54
18	g	Edward R.	these Waters but as 1, to	7		4	5	56
19	a	Joseph	144000, could not there	8		2		58
20	b	Cuthbert	by cause such Ebbing and	9	6	0	6	0
21	c	Bened. &	Flowing of the Tides.	10	5	58	6	2
22	d	Lazarus	Neither do the Tides an-	11		56		4
23	e	Victor	swer such necessary Con	12		54		6
24	f	Quirinus	sequences, as would be	13		52		8
25	g	An. B. V. M.	found if the Moon's rari-	14		50		10
26	a	Castulus	fying or attracting the	15	5	48	6	12
27	b	Jo. Erem.	Waters, was the cause of	16		46		14
28	c	Gideon	them; for then in those	17		44		16
29	d	Judica	vast Oceans, that have	18		42		18
30	e	Guido	Communication round the	19		40		20
31	f	Balbina	Globe, there could be but	20		38	6	22
April	g	Theodore	one High-Water, and one	21		36		24
1	a	Mary Egy.	Low-Water in 24 hours;	22		34		26
2	b	Ulpian	and the Moon's thus at-	23		32		28
3	c	Ambrose	tracting the Waters would	24		30		30
4	d	Palm-Sund.	cause them to rise as much	25	5	28	6	32
5	e	Sixtus	if not more, in the midst	26		26		34
6	f	Egesippus	of such vast Oceans, as	27		24		36
7	g	Dionysius	else where, but the con-	28		22		38
8	a	Marcellus	trary appears, for the	29		20		40
9	b	Ezechiel	greatest rising and falling	30		17		43
10	c	Leo Pa.	of the Waters is found in	31	5	15	6	45
			the					

April hath xxx Days.

- ☾ Last Quarter, the 5th. day, at 5 in the afternoon.
- ☾ New Moon the 12th. day, at 10 in the morning.
- ☾ First Quarter, the 19th. day, at 9 at night.
- ☾ Full Moon the 27th. day, at 9 at night.

1	☾ Palm-Sunday	sagit.	0 10 A.	53	Cold Winds,
2	a ☾ n. Dex. Ge. Op.	sagit.	13 12	17	frosty Air at
3	n. Dex. hu. Op.	sagit.	26 0	M. 17	beginning,
4	c ☾ n. Cap. sagit. capri.	10 1	26		continues co
5	d ☾ n. Bor. Cor. w capri.	13 2	23		* ♂ ♀ with fo
6	e ☾ n. Lu. in M. ♀	aqua.	7 3	9	* ♀ Rain
7	f ☾ n. Dex. hu. ♀	aqua.	22 3	38	bout the 6th.
8	☾ Easter-Day	pisces	6 4	0	7th. days,
9	a ☾ Sol in Taurus	pisces	21 4	17	♂ ♀ ♂ contin
10	b ☾ n. Algenib	aries	5 4	35	♂ ☉ ♀ shov
11	c ☾ 8.	aries	20 4	51	till after the
12	d ☾ II 24.	taur.	4	New	— Moon, then
13	e ☾ II 6.	taur.	19 8 A.	50	♂ ♀ may
14	f ☾ II 10.	Gem.	1 10	11	pest fair for
15	☾ Low-Sunday	Gem.	16 11	33	day; but ab
16	a ☾ 14.	Gem.	29 12	41	the 16th. h
17	b ☾ n. Castor	canc.	11 0	M. 41	Winds, with
18	c ☾ n. Pollux	canc.	24 1	34	♂ ☉ storm
19	d ☾ n. Asel os	leo	6 2	7	Hail or Ra
20	e ☾ n. Cor. Leonis	leo	18 2	39	♂ ♀ ter
21	f ☾ n. Lu. in T. ♀	virgo	0 2	58	warm an
22	☾ Sund. p. Easter	virgo	11 3	13	Spring-Wea
23	a S. George	virgo	23 3	25	is expected
24	b ☾ n. Vindemiati.	libra	5 3	38	some little
25	c ☾ Mark. Ter. be.	libra	18 3	50	ers, & contin
26	d ☾ n. Lanx Aust.	scor. p.	0 4	4	warm; and at
27	e ☾ n. Lanx Bor.	scorp.	13	Full	the 27th. or 2
28	f ☾ n. Cor. Scorp.	scorp.	26 8	A. 44	days, plenty
29	☾ 3 Sund. p. Easter	sagit.	10	4	Showers are
30	a ☾ n. Dex. hu. O.	sagit.	23 11	15	pest, and con
					showry to the

Forcig. Accom.
Nom. Kalendar

12 p
13 p
14 f
15 b
16 a
17 h
18 c
19 d
20 e
21 f
22 b
23 a
24 b
25 c
26 d
27 e
28 f
29 b
30 a
May. S.
A.
Ju
e Ch
f Go
g Jo
a Ju
b Sta
c Ep
d Ca
e M

April 1705.

Saturn is hid under the Sun Beams, going to Combustion. Jupiter, Mars, and Venus, are near together all the midst of the Month, and set then betwixt 11 and 12 at night Mercury at the beginning goeth to Combustion, at the end he emergeth from the Sun Beams, and may be seen setting 2 Hours after the Sun.

Foreign Accom.	Rom. Sts. days.	Rom. Calend. r.							
12	e	Palcha	the extreame Bounds of	1	15	13	6	47	
13	e	Iustinus	such Oceans, that is, near	2		11		49	
14	e	Fiburtius	the Shores, but in the	3		9		51	
15	e	Perpetua	midst is found only great	4		7		53	
16	a	Carinus	Currents forwards and	5		5		55	
17	h	Anicetus	backwards, without any	6		3		57	
18	c	Valerian	considerable Change of Height.	7	5	1	6	59	
19	d	Quadrinod.	But if such great Attraction be	8	4	59	7	1	
20	e	Victor	allowed, would not the Atmo-	9		57		3	
21	e	Simeon	sphere be also attracted, and the	10		55		5	
22	e	Quintin	Baroscope daily affected thereby?	11		53		7	
23	a	S. George	now neither the Moon rarifying,	12		51		9	
24	b	Albertus	nor attracting the Waters, being	13		49		11	
25	c	S. Mark	found sufficient to cause such	14		47		13	
26	d	Milicord	Ebbing and Flowing, much less	15	4	45	7	15	
27	e	Anastasiu	could what is so only and ex-	16		43		17	
28	e	Vitalis	travagantly fanfied by others, as	17		41		19	
29	e	Pet. de Mil.	the Pressure of the Moon, the	18		40		20	
30	a	Eutropius	Strife betwixt the Fresh-water,	19		38		22	
May	c	S. Phi. & Jac.	and the Salt, &c. be the cause of	20		36		24	
	c	Athanasius	such Effects. I then proceeded	21	4	35	7	25	
	d	Jubilate	to shew, that by the Motion of	22		34		26	
	e	Christoph.	the Earth there seemed a necessity	23		33		27	
	e	Gothard	of such Fluctuation of the Wa-	24		31		29	
	e	Jo. Por. La.	ters, (but here I would be under-	25		29		31	
	a	Juvenal	stood to speak chiefly to such as	26		27		33	
	b	Stanislaus	allow the probability of the Co-	27		25		35	
	c	Epinach	pernician System.) The Seas being	28		23		37	
	d	Capitate	as Vessels containing the Waters,	29		21		39	
	e	M. mert.	and these Vessels being moved,	30	4	19		41	
			with a Motion unequal, viz.						
			Sometimes accelerating and some-						
			times retarding, the Water con-						
			tained in such Vessel, or Vessels,						
			by reason of its Fluidity would						
			not on a sudden strictly follow						
			all the Mutations of the Vessel,						
			but						

May hath xxxi Days.

- ☾ Last Quarter the 4th. day, at 11 at night.
- ☾ New Moon the 11th. day, at 8 at night.
- ☾ First Quarter the 19th. day, at 3 in the afternoon.
- ☾ Full Moon the 27th. day, at 9 in the morning.

1	f	S. Phillip & Jacob	capri. 6	12	22	cloudy and clo
2	c	☾ n. Cor. Bor. w	capri. 20	0	M. 22	with shower
3	d	☾ n. Lu. in M.	aqua. 3	1	4	Weather, and
4	e	☾ n. Sin. in M.	aqua. 18	1	46	expected to co
5	f	☾ n. Dex. Bra.	pisces 2	2	9	tinue, with son
6	g	☾ 4 Sund. p. Easter	pisces 16	2	28	cool Gales
7	a	☾ n. Algenib.	aries 1	2	45	Wind about th
8	b	☾ n. Vent. Cet.	aries 15	2	57	time, and oth
9	c	☾ n. pri. * Ari.	taur. 0	3	9	* h 3 while b
10	d	☾ Sol in Gemini	taur. 13	3	26	Weather, wit
11	e	☾ n. Pleiades	taur. 27	New	☾	[Sun Ecliped, In
12	f	☾ n. Aldebaran	gem. 11	9	A. 10	showers; no
13	g	☾ Rogat. Sunday	gem. 24	10	27	windy Weather
14	a	☾ n. Luc. ped. II	canc. 7	11	24	expected, & ab
15	b	☾ n. Cast & Pol.	canc. 20	12	11	the 15th. or 16
16	c	☾ n. Asellos	leo 2	0	M. 11	day Rain, &
17	d	☾ Ascens. Domini	leo 14	0	43	plenty of showe
18	e	☾ n. Cor. Leon.	leo 26	1	3	then follows
19	f	☾ h 8 13.	virgo 8	1	19	Weather for so
20	g	☾ 6 Sund. p. Easter	virgo 20	1	32	days, and ot
21	a	☾ Term Ends	libra 1	1	44	whiles some br
22	b	☾ ♀ 2.	libra 13	1	54	Gales of Wi
23	c	☾ ♂ 20.	libra 26	2	5	with some drif
24	d	☾ ♀ 9. Rx.	scorp. 8	2	16	and a moist A
25	e	☾ ♀ II 28 Rx.	scorp. 21	2	32	but about the
26	f	☾ n. Cor. Scorp.	sagit. 4	2	51	Moon we
27	g	☾ Whit-Sunday	sagit. 18	Full	☾	expect some
28	a	☾ n. Cap. Sagit.	capri. 2	10	A. 5	Winds with R
29	b	☾ K. Ch. II. N. & R.	capri. 16	11	4	and now and t
30	c	☾ Ember Week	aqua. 0	11	44	showers to the
31	d	☾ n. Si. Hum.	aqua. 15	12	14	of the Mond

Moon's Rising.

Moon's Setting.

Moon's Risi.

Roman Calendar.
Roman Saints.
Roman Account.
 Saturn emergeth from under the Sun Beams, and riseth before him. Jupiter sets about 10 at Night. Mars sets a little after 11. Venus at the beginning sets after 11, at the end she sets before 10 at Night. Mercury at the beginning may be seen, setting near 10 at Night.

12	Pancratius	our mult thereby fluctuate	1	17	7	43
13	Servatius	and run to and fro, for such	2	16		44
14	Boniface	1 Vessel having one acquired	3	14		46
15	Sophia	1 certain Motion, and the	4	12		48
16	Peregrin	Water therein the same, the	5	10		50
17	Agathon	Vessel then being retarded	6	9		51
18	Venant	in its Motion, the Water	7	8		52
19	Potentia	still keeping part of its for-	8	6		54
20	Dunstan	mer Imperas, will run to'rds	9	5		55
21	Alc. Dom	the preceding part of the	10	3		57
22	Hospitius	Vessel, and there of necessity	11	2		58
23	Desiderius	must rise; and on the con-	12	4	17	59
24	Paul	trary, if the Vessel be pushed	13	4	03	0
25	August	on, and the motion accel-	14	3	59	8
26	Quadrat	erated, the Water before it	15	58		2
27	Beda V.	can acquire this new mo-	16	57		3
28	German	tion, falleth back towards	17	56		4
29	Maximin	the following part of the	18	54		6
30	Wigand	Vessel, and there rise. h also,	19	53		7
31	Pentecost	and at the same time aba-	20	3	52	8
1	Pamphil	terth in the preceding part,	21	51		9
2	Marcel	the Water being outrun by	22	50		10
3	Erasmus	the Vessel: And that it	23	49		11
4	Petroch	would thus happen I shew	24	48		12
5	Boniface	ed how it had been or might	25	47		13
6	Artemius	be experimented in artifi-	26	46		14
7	Tris-San	cial Vessels. And that the	27	45		15
8	Medard	Seas, and indeed all parts	28	45		15
9	Barnim	of the Earth where such eb-	29	44		16
10	Gastulius	bing and flowing hath been	30	44	8	16
11	St. Barnab	B eb	31	43		17

June hath XXX Days.

- ☾ Last Quarter the 3d day at 6 in the morning
- ☾ New Moon the 10th day at 7 in the Morning.
- ☾ First Quarter the 18th day at 8 in the Morning.
- ☾ Full Moon the 25th day at 6 in the Afternoon.

1e	Dr. Dex. B. ♊	aquar. 29	0	M	14	Some cool drizzle
2f	n. Marchab.	pisces 13	0		33	Rain, followed with
3e	Trin. Sunday	pisces 27	7		45	☾ ☽ ☽ brisk Wind
43	n. Algenib.	aries 11	1		0	☾ ☽ ☽ begins to
50	n. pr. * Ar.	aries 25	1		14	Month, afterwards
6c	n. Manker	taur. 9	1		28	fair and hot weather
70	n. Pleiades	taur. 22	1		45	is expected, and may
8c	Term. Rogini	gem. 6	2		5	probably continue
9f	n. Alhaiot	gem. 19	2		36	without much alteration,
10e	Sund. p. Trin.	capr. 2	New		☾	ration, till after
113	St. Barnabas	canc. 18	0	A	25	new Moon, till
12e	n. Pollux	canc. 27	10		35	☾ ☽ ☽ some m
13c	n. Asellos	leo 11	11		5	Mornings are ex
14e	n. Cor. Leo	leo 22	11		23	clouded with very
15e	n. Lu. T. Leo	virgo 4	11		37	Afternoons,
16f	n. Caus. Leo	virgo 15	11		51	Thunder and R
17e	Sund. p. Trin.	virgo 27	12		1	about the 16
18a	n. Spica Virg.	libra 9	0	M	1	& showery weather
19b	h 8 17.	libra 21	0		10	follows for ☾ ☽
20c	☽ 8.	scorp. 4	0		18	some days
210	☽ 8.	scorp. 10	0		28	some brisk W
22c	☽ II 24 R.	scorp. 21	0		43	about the 22
23f	☽ II 22 D.	sagit. 13	1		1	and also about
24e	St. John Bapt	sagit. 27	1		45	Full Moon w
253	n. Cap. Sagit.	capric. 11	1		☾	☾ ☽ ☽ weath
26b	n. Corn. B. ♊	capric. 25	9		36	expected, & a
27c	Trin. Sunday	aquar. 10	10		22	the 28th
280	n. Dex. Br. ♊	aquar. 25	10		36	29th Days
29c	St. Peter & Paul	pisces 9	10		54	* h ☽ dr
30f	n. Algenib.	pisces 24	11		11	Rain.

Foreign Account.

Some, N. Menar.
13c
14e
15f
16g
17h
18a
19b
20c
21d
22e
23f
24g
25h
26i
27j
28k
29l
30m
1n
2o
3p
4q
5r
6s
7t
8u
9v
10w
11x
12y
13z

JUNE, 1705.

Saturn at the beginning rises between 2 and 3 in the Morning, at the end he rises between 12 and 1. Mars sets about 10 at Night, Jupiter, Venus and Mercury all go to Combustion, but at the end Venus and Mercury emerge from under the Sun Beams, and rise before him.

Rom. Calendar.
Foreign Account.

11	b	Basilides	observed, are successively	1	3	43	8	17
13	c	Cyrillus	moved, with a motion some-	2		43		17
14	d	S. p. Trin.	times accelerating, and	3		42		18
15	e	Vitus	sometimes retarding, and	4		42		18
16	f	Rufandus	this from the mixture of the	5		42		18
17	g	Botolph	two motions of the Earth,	6		42		18
18	a	Marcus	Annual and Diurnal, for	7		41		19
19	b	Gervase	from this compound Motion	8		41		19
20	c	Regina.	did arise an unequal motion	9		41		19
21	d	S. p. Trin.	which was the prime cause	10	3	41		19
22	e	Alban	of ebbing and flowing of	11		41	8	19
23	f	Basilus	the Seas, which in my last	12		41		19
24	g	S. J. Bapt.	I endeavoured fully to ex-	13		41		19
25	a	Amandus	plain, as also how agreeable	14		42		18
26	b	Jeremias	the Tides explain'd in diffe-	15		42		18
27	c	7 Dorm.	rent places, were to such	16		42		18
28	d	S. p. Trin.	Fluctuations as this Motion	17		42		18
29	e	St. Peter	must cause, and how disa-	18		42		17
30	f	Lucina	agreeable to the Supposition	19		43		17
1	g	Tr. Sirith.	of the Moons attracting the	20	3	44	8	16
2	a	Visc. V.M.	Water being the cause of	21		44		16
3	b	Cornelius	Tides, I also then shewed	22		45		15
4	c	Ulricus	that the Sun and Moon had	23		45		15
5	d	S. p. Trin.	their share as Augmenters	24		46		14
6	e	Tranquil.	or Diminishers of their Mo	25		46		14
7	f	Th. Becket	tion, from whence arose	26		47		13
8	g	Grimbald	those different ebbings and	27		48		12
9	a	Cyrillus	flowings which are observed	28		49		11
10	b	7 Frates	monthly and annually, viz.	29		50		10
		Beved. St.	B 2 the	30	3	51	8	9

July hath XXXI Days.

- ☾ Last Quarter the 2d day at 10 in the Morning.
- New Moon the 9th day at 8 at Night.
- ☾ First Quarter the 17th day at Midnight.
- Full Moon the 25th day at 2 in the Morning.
- ☾ Last Quarter the 31st day at 5 in the Afternoon.

1		♈	aries	8	11	A 23		Some drisling	12
2	a	♈	aries	22	11	36		at the beginning	13
3	b	♉	taur.	6	11	52	Moons rising.	then fair and	14
4	c	♉	taur.	19	12	11		weather may	15
5	d	♊	gem.	20	M 11			expected for	16
6	e	♊	gem.	15	0	26		☾ h ♂ ral da	17
7	f	♊	gem.	28	1	00		now miday Mo	18
8	g	♋	canc.	11	1	43		ings, with Thun	19
9	a	♋	canc.	23				♂ ♀ and R	20
10	b	♌	leo	6	8	A 57		about the N	21
11	c	♌	leo	18	9	22		Moon; follow	22
12	d	♍	virgo	0	9	40	Moons setting.	* h ♂ with	23
13	e	♍	virgo	12	9	5		cooling gales	24
14	f	♍	virgo	24	10	4		Wind, not with	25
15	g	♎	libra	6	10	17		☾ with in	26
16	a	♎	libra	18	10	27		drieling, and ab	27
17	b	♏	scorp.	0	10	41		the 19th day	28
18	c	♏	scorp.	12	10	56		may expect	29
19	d	♏	scorp.	24	11	12		windy and flo	30
20	e	♐	sagit.	7	11	44		weather, then	31
21	f	♐	sagit.	21	12	20		and good Hay	
22	g	♐	capric.	5	0	M 2		ther is expe	2
23	a	♐	capric.	19	1	17		♂ ♀ to fol	3
24	b	♑	aquar.	4	2	38		and (except	4
25	c	♑	aquar.	19				Heele drisling	5
26	d	♑	pisces	4	8	A 54	Moons rising.	* ♂ ♀ contin	6
27	e	♑	pisces	19	9	11		☾ h ♂ fair	7
28	f	♈	aries	3	9	25		near the end, w	8
29	g	♈	aries	18	9	39		is expected to	9
30	a	♈	taur.	2	9	55		duce some sho	10
31	b	♈	taur.	16	10			of Rain.	11

Rom. Calendar.
Forin Account.

July, 1705.

Saturn at the beginning rises about Midnight, at the end he rises between 10 and 11 at Night. Jupiter rises between 2 and 3 in the Morning. Venus rises between 1 and 2 in the Morning. Mars sets between 8 and 9 at Night. Mercury at the beginning rises before the Sun, at the end he is Consumed.

Rom. Calendar.
Rom. Signs day.
Foreign Account.

12	the Spring-tides and Neap-tides, Equinoctial and Solstice; that the Additions and Subtractions caused by the diurnal Coverfions, are very different in the Solstices, from what they are in the Equinox; and also the Earths Perihelion and Aphelion being near the Solstices, causeth different Tides to what would otherwise happen. That the Spring-tides, as they are called, which happen at the New and Full Moons, are caused, not by the greater or less attraction of the moon, but by her accelerating or retarding the Earth in her annual motion in the grand Orb, she being an appendant weight hung to the long pendulum, and in her Change or New, accelerateth, but in her Full retardeth the Earths motion, and is thereby a cause of the Alterations of or in those Spring tides, that some	1	3	52	8	8
13	Henricus	2		53		7
14	Bonavent.	3		54		6
15	Switha	4		55		5
16	Kenelm	5		56		4
17	Hilarius	6		57		3
18	Alexius	7	3	58		2
19		8	4	59	8	1
20	Margaret	9	4	00	8	00
21	Praxeda	10	5	01		57
22	Mary Mag.	11	5	02		55
23	Apollon	12	6	03		54
24	Christina	13	7	04		53
25		14	8	05		51
26		15	4	10	7	50
27	Martha	16	11			49
28	Panthol	17	12			48
29	Beatrix	18	14			46
30	Abdon	19	16			44
31	German	20	17			43
2		21	18			41
3	Dominic.	22	20			40
4	Arikarch.	23	21			38
5	Fest. Nivis	24	23			37
6	Sixtus	25	4	25	7	35
7	Cyriacus	26	27			33
8	Romanus	27	29			31
9		28	31			29
10	Lawrence	29	33			27
11	Tiburtius	30	35			25
		31	4	37	7	22

B 2 dif

Roun. Kaleadar.
Foreign Account.

- | | | |
|----|---|---|
| 12 | g | C |
| 13 | 3 | A |
| 14 | b | E |
| 15 | c | A |
| 16 | | |
| 17 | e | |
| 18 | f | H |
| 19 | g | C |
| 20 | a | F |
| 21 | b | P |
| 22 | c | S |
| 23 | | |
| 24 | e | |
| 25 | f | L |
| 26 | g | S |
| 27 | a | R |
| 28 | b | A |
| 29 | c | D |
| 30 | | |
| 31 | e | P |
| 32 | | A |
| 33 | | A |
| 34 | b | M |
| 35 | c | T |
| 36 | | M |
| 37 | | |
| 38 | e | R |
| 39 | f | N |
| 40 | g | G |
| 41 | a | H |
| 42 | b | F |

Moons setting	Moons rising	Moons setting
10 A 30	10 A 30	10 A 30
11 10	11 10	11 10
11 42	11 42	11 42
12 38	12 38	12 38
13 38	13 38	13 38
14 40	14 40	14 40
15 50	15 50	15 50
16 7	16 7	16 7
17 20	17 20	17 20
18 31	18 31	18 31
19 41	19 41	19 41
20 52	20 52	20 52
21 6	21 6	21 6
22 19	22 19	22 19
23 45	23 45	23 45
24 18	24 18	24 18
25 6	25 6	25 6
26 8	26 8	26 8
27 35	27 35	27 35
28 4	28 4	28 4
29 33	29 33	29 33
30 47	30 47	30 47
31 6	31 6	31 6
32 20	32 20	32 20
33 40	33 40	33 40
34 13	34 13	34 13
35 52	35 52	35 52
36 40	36 40	36 40

August, 1705

Saturn at the beginning riseth about 10, at the end he riseth before 9 at Night, Jupiter and Venus rise between 1 and 2 in the Morning, Mars sets a little after the Sun, Mercury at the beginning sets with Mars, at the end he sets after him.

Foreign Account.
Roun. Kaicedar.
Rom. Saints days

12	g	Clara V.	difference may also happen	1	4	39	7	21
13	g	Amatus	in the fides, at such New and	2		41		19
14	b	Eusebitus	Full Moons as fall near the	3		42		18
15	c	Assu. V.M.	Apogee and Perigee of	4		44		16
16	d	10 S.P.T.	the Moon, But there be	5		46		14
17	e	Agapite	many accidents which may	6		48		12
18	f	H. lena	and so alter the Tides, as	7		50		10
19	g	Clinton	the Waters endeavouring	8		52		8
20	a	Fausta	through its Gravity and	9		54		6
21	b	Privatus	Fluidity to come to an	10		56		4
22	c	Symphron	Equilibrium. The different	11		58		2
23	d	11 S.P.T.	lengths of the Vessels, the	12	4	00	7	0
24	e	30 Bartho	different depths of the Seas,	13		26		58
25	f	Ludovicus	their different Extension	14		3		57
26	g	Severin.	whether from North to	15		5		55
27	a	Ruffus	South, or from East to West,	16		7		53
28	b	Augustin.	some Seas having little or	17		8		52
29	c	Decol. J.B.	no Tides, others extraordi-	18		10		50
30	d	12 S.P.T.	nary Tides, those Seas ex-	19		12		48
31	e	Paulinus	tended from East to West,	20	5	14	5	46
Sept.	f	Aegidius	having much greater Cur-	21		16		44
2	g	Anthony	rent and Fluctuations than	22		18		42
3	a	Mamert	those extended from North	23		20		40
4	b	Theodosia	to South: Some places	24		22		38
5	c	Moses	have also great and uncer-	25		24		36
6	d	13 S.P.T.	tain Winds, whilst others	26		26		34
7	e	Regina	have a constant and cer-	27		28		32
8	f	Nat. V.M.	tain Gale, some Seas receive	28		30		30
9	g	Gorgon	a much greater quantity of	29		32		28
10	a	Hilar.	Water by the Rivers that	30	5	34	5	26
11	b	Felix	B 4 run	1		36		24

September hath XXX Days.

- New Moon the 7th day at 3 in the Morning.
- First Quarter the 15th day at 1 in the Morning.
- Full Moon the 21st day at 6 at Night.
- Last Quarter the 28th day at 4 in the Afternoon.

1 f	Dn. Castor & P. canc.	17	11 A	41	I Moons rising	△ ☉ Windy
2	leo	12	50			fair at the be
3 a	Dn. Cap. Leo.	12	0 M	50		ning, and 'is he
4 b	Dn. Cor. Leon.	14	1	55		may continue g
5 c	Dn. L. in T. Le.	5	3	6		weather for
6 d	Dn. Caud. Leo.	17	4	14		latter Harvest a
7 e	Dn. Vir. dem.	29				* ☿ most of
8 f	Dn. Spica Virg.	11	6 A	51		former part e
9	libra	13	7	11		Month, yet not
10 a	Dn. Laux Aust.	5	7	28	I Moons setting	out some
11 b	Dn. Laux Bor.	17	7	40		☿ ☽ Winds
12 c	sagit.	0	7	57		flying Storms a
13 d	h 8 19. R.	12	8	23		the 10 or 12
14 e	Exalt. Crucis	25	9	2		and about the
15 f	♄ 26.	9	10	0		☿ ☽ ☽ ☽
16	capric.	2	11	17		19th days,
17 a	♂ 5.	6	12	35		showers of Rain
18 b	♀ 22.	21	0 M	35		expected, follo
19 c	♂ 27. R.	5	2	13	I Moons rising	with brisk W
20 d	♂ 27. R.	21	3	47		and cold Morn
21 e	ries	6				with now and
22 f	Dn. pr. * Ar.	21	6 A	20		* ☿ ☽
23	taur.	6	6	39		showers, with
24 a	Dn. Pleiades	20	6	5		Winds and f
25 b	Dn. Aldebar.	4	7	18		Mornings, and
26 c	Dn. Alhaiot	18	7	57		showery and
27 d	Dn. Luc. P. G.	1	8	42		constant Wea
28 e	Dn. Cast. & Po.	14	9	37		for the most pa
29 f	canc.	26	10	45		the end of
30	leo	8	14	00		Month. ☿ ☽

Foreign Account.
English Account.
Komi. Calendar.

12 c
13
14 e
15 f
16 g
17
18 b
19 c
20
21 e
22 f
23 g
24
25 b
26 c
27
28 e
29 f
30 g
H
R
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Dy
Bu

September, 1705.

Saturn at the beginning riseth between 8 and 9 at Night, and is South between 3 and 4 in the Morn- at the end he is South about 2. Jupiter rises between 11 and 12 at Night, Mars is Combust, Venus rises about 2 in the Morning, Mercury at the beginning sets after the Sun, at the end he goeth to Combustion.

Foreign Account.	Rom. Calendar.	Rom. Saints days.						
Windy	12	c	Guido	run into them, than others	1	5	38	5 22
the be	13	d	14 S. P. T.	do, in proportion to the	2		40	20
d'is ho	14	e	Exalt. Cru.	greatness of them; some	3		42	18
atinue g	15	f	Nicomed.	Seas do by vapours send	4		44	16
for	16	g	Edith.	away much more Water	5		46	14
arvest a	17	a	Lampr.	than others, and of the va-	6		48	12
most of	18	b	Færeolus	pour thus sent some receive	7		50	10
part of	19	c	Januarius	a greater quanty back	8		52	8
et not	20	d	15 S. P. T.	again than others, from all	9		54	6
ome	21	e	St. Marth.	which ariseth different Cur-	10		56	4
Winds	22	f	Maurice	rents in streights, where	11	5	58	2
orms a	23	g	Tecla Vir.	the Seas do as it were empty	12	6	0 5	00
er 12	24	a	Rupert	and supply each other. For	13	6	2 5	58
ut the	25	b	Cleophas	the Mediterranean, tho' it	14		4	56
♂♂	26	c	Cyprian.	possibly may receive more	15		6	54
ays,	27	d	16 S. P. T.	Rivers into it, in proportion	16		8	52
of Rain	28	e	Wenceslau	to its magnisude, than other	17		10	50
d, folle	29	f	St. Michael	larger Seas, by reason of	18		12	48
risk W	30	g	Hierom	its Figures, and the great	19		14	46
d Mern	1	a	Remigius	adjoining Continents, yet	20	6	16 5	44
w and	2	b	Leodegar.	must it also for the same	21		18	42
♀	3	c	Maximin.	Reason, send forth much	22		20	40
, with	4	d	17 S. P. T.	more by the vapours raised	23		22	38
and f	5	e	Constance	from it, for the Earth is much	24		24	36
gs, and	6	f	Fides	more capable of retaining	25	5	26	34
y and	7	g	Marc. &c	and reflecting Heat than the	26		28	32
t Wea	8	a	Pelagia	Waters, and the Mediter-	27		30	30
most pa	9	b	Dyonisius	anean lying in such vast	28		32	28
nd of	10	c	Burchard	length betwixt the Conti-	29		34	26
♂♂				nents	30	5	36 5	24

October hath XXXI Days.

- ☾ New Moon the 6th day at 9 at Night.
- ☾ First Quarter the 14th day at Noon.
- ☾ Full Moon the 21st day at 3 in the morning.
- ☾ Last Quarter the 28th day at 10 in the Morning.

1 a	D n. Cor. Leon	leo	20 5	N	4	Cold winds w
2 b	D n. L. in T. Le	virgo	2 1			cloudy. close a
3 c	D n. Caud. Le.	virgo	14 2			☽ ☽ ☽ cr. i
4 d	D n. Sin. P. V. r.	virgo	7 4			weather these da
5 e	D n. Vindemi.	libra	8 5			then follows for
6 f	D n. Spica Vir.	libra	10 6	New	☾	frosty Morning
7 g	☽ Sun. p. Trin.	scorp.	2 5	A	30	and abot the
8 a	D n. Lac. X. Bor.	scorp.	14 5			or. 9th days, w
9 b	D n. Sa. in P. M.	scorp.	2 6			Wines, wine &
10 c	D n. Cor Scor.	sagit.	9 6			☽ ☽ ☽ ☽ ☽
11 d	D n. Dex. H. O.	sagit.	22 7			rough weather
12 e	Sol in Scorp.	capric.	5 7			expected, after
13 f	☽ ☽ 18. R.	capric.	18 9			some frosty Mo
14 g	☽ ☽ 19. R.	aquar.	2 10			ings, and fair
15 a	☽ ☽ 29.	aquar.	18 11			a while, but at
16 b	☽ ☽ 24.	pisces	0 1			the 6 some drif
17 c	☽ ☽ 26.	pisces	14 1	M	16	Rain is expos
18 d	St. Luke	pisces	29 2			and cold
19 e	☽ ☽ 19. D.	aries	14 4			* ☽ ☽ wea
20 f	D n. pr. * Arict.	aries	29 5			then dry wea
21 g	☽ ☽ 20. R.	taur.	14 6	Full	☾	for some days,
22 a	D n. Pleiades	taur.	28 5	A	15	cloudy and c
23 b	Terra Begias	gem.	12 5			then foggy M
24 c	D n. Dex. H. A	gem.	25 6			☽ ☽ ☽ ings
25 d	Crissin	canc.	9 7			the Aternoc
26 e	D n. Pollux	canc.	22 8			☽ ☽ ☽ clea
27 f	D n. Asellos	leo	5 9			☽ ☽ ☽ up, bu
28 g	St. Sim. & Jude	leo	17 11			☽ ☽ ☽ b dri
29 a	D n. Cor. Leon	leo	29 12			Rain is exp
30 b	D n. L. in T. Virgo	virgo	11 0	M	21	at the end.
31 c	D n. Caud. Leo.	virgo	22 1			

Moons rising

Moons rising

Rom. Kalend. r.
Foreign Account.

12 e
13 f
14 g
15 a
16 b
17 c
18 d
19 e
20 f
21 g
22 a
23 b
24 c
25 d
26 e
27 f
28 g
29 a
30 b
31 c
32 d
33 e
34 f
35 g
36 a
37 b
38 c
39 d
40 e
41 f
42 g
43 a
44 b
45 c
46 d
47 e
48 f
49 g
50 a
51 b
52 c
53 d
54 e
55 f
56 g
57 a
58 b
59 c
60 d
61 e
62 f
63 g
64 a
65 b
66 c
67 d
68 e
69 f
70 g
71 a
72 b
73 c
74 d
75 e
76 f
77 g
78 a
79 b
80 c
81 d
82 e
83 f
84 g
85 a
86 b
87 c
88 d
89 e
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123 d
124 e
125 f
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129 c
130 d
131 e
132 f
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134 a
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138 e
139 f
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148 a
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151 d
152 e
153 f
154 g
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213 c
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247 b
248 c
249 d
250 e
251 f
252 g
253 a
254 b
255 c
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315 g
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420 g
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423 c
424 d
425 e
426 f
427 g
428 a
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430 c
431 d
432 e
433 f
434 g
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436 b
437 c
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439 e
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453 e
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455 g
456 a
457 b
458 c
459 d
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463 a
464 b
465 c
466 d
467 e
468 f
469 g
470 a
471 b
472 c
473 d
474 e
475 f
476 g
477 a
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734 f
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825 f
826 g
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828 b
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830 d
831 e
832 f
833 g
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838 e
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1116 c
1117 d
1118 e
1119 f
1120 g
1121 a
1122 b
1123 c
1124 d
1125 e
1126 f
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1128 a
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1610 g
1611 a
1612 b
1613 c
1614 d
1615 e
1616 f
1617 g
1618 a
1619 b
1620 c
1621 d

October, 1705.

Foreign Account.	Rom. Kalend. r.	Rom. Saints days	
			Saturn at the beginning is South betwixt 1 and 2 in the Morning, at the end he is South at Midnight. Jupiter at the beginning riseth betwixt 10 & 11 at Night, at the end he riseth a little after 9. Venus rises betwixt 3 and 4 in the Morning, Mars and Mercury are hid under the Sun Beams.
12	e	Joan	nents of Europe and Asia, on
13	f	Telemach.	the one side, and Africa on
14	g	Calixtus	the other; and is to inter-
15	a	Hedwig	mixt with smaller Conti-
16	b	Gallus	nents, Peninsulas & Islands,
17	c	Florent	much more vapour is ex a
18	d	St. Euseb	led and carried from
19	e	Ptolomay	thence in proportion to its
20	f	Wendelin	magnitude, than from other
21	g	Cordula	larger Seas that lie under
22	a	40 Vir. Ma.	or near the same Latitude
23	b	Roman	and these vapours Possibly
24	c	Salome	but part of them return to
25	d	St. S. Peter	the Mediterranean; hence
26	e	Amandus	it wants a supply, and ha-
27	f	Ursula	ving no communication with
28	g	St. S. & J	other Seas but with the
29	a	Narcissus	Atlantick, by the Straights
30	b	Theorest.	of Gibraltar, is there sup-
31	c	Wolfgang	plied by a Current always
	d	St. S. Peter	setting into the Mediterra-
	e	Al. Seula	ne, at the Mouth of the
	f	Theophil.	said Straights; for the
	g	Amandus	vapours raised returning to
	a	Latus	the Earth in Rain or Snow,
	b	Leonard	are sometimes driven far,
	c	Florent	and fall so as to be carried
	d	St. S. Peter	into Rivers that run not
	e	Theodere	into the Mediterranean. For
	f	Martin P.	though the Mediterranean
	g	Martin Ep.	re-
			6 39 5 21
			2 41 19
			3 43 17
			4 45 15
			5 48 12
			6 50 10
			7 52 8
			8 54 6
			9 56 4
			10 58 2
			11 7 00 0
			12 7 21 58
			13 4 56
			14 1 54
			15 8 52
			16 30 50
			17 12 48
			18 14 46
			19 16 44
			20 7 18 42
			21 20 40
			22 21 39
			23 23 37
			24 21 35
			25 27 33
			26 29 31
			27 31 29
			28 31 27
			29 35 25
			30 7 37 23
			31 38 21

November hath XXX Days.

- New Moon the 5th betwixt 1 and 2 in the Afternoon
- First Quarter the 12th day at 9 at Night.
- Full Moon the 19th day at 3 in the afternoon
- Last Quarrer the 27th day at 6 in the Morning.

1	D	libra	4	2	M	1	Some Frost at
2		Dn. Spica Virg.	libra	16	3	44	beginning of
3	f	Dn. Laux Autt.	libra	28	4	58	Month, and ab
4		scorp.	11	6		13	the 5th day fo
5	a	scorp.	23				forms of Snow
6	o	Dn. Cor S. orp.	sagit.	6	4	A 40	♂ ♀ cold Ra
7	c	Dn. Dex. H. O.	sagit.	15	5	13	and continues
8	D	Dn. Sin M. ♄	capric.	2	6		and rough, t
9		Dn. Cap. Sagit.	capric.	15	7	9	some Mist or
10		Dn. Lu. in M. ☿	capric.	29	8	12	sling Rain.
11		aquar.	13	9		36	
12	a	aquar.	26	10		57	about the 12th
13	b	♄ 15.	pisces	10	12	23	☐ ♂ ♀ tempe
14	c	♄ 29. R.	pisces	25	0	M 23	Δ ♀ cus,
15	D	♂ m 14.	aries	9	1	53	plenty of Rai
16	e	♀ m 2.	aries	23	1	22	♂ ♀ ♂ Snow,
17	f	St. Hugh	taur.	18	5	00	follows cloudy
18		taur.	22	6		20	and dark weat
19	a	gem.	6				with cold Rai
20	b	Dn. Alha'ot	gem.	20	4	A 18	Snow about the
21	c	Dn. Luc. P. Ge	canc.	4	5	7	Moon, afterw
22	D	Dn. Cast. & P.	canc.	17	6	0	♂ ♀ ♀ we
23	e	Dn. Afellos	leo	0	7	10	expect foggy,
24	f	Dn. Cap. Leo	leo	13	8	27	and misty weat
25		leo	25	9		47	and in all pro
26	a	Dn. L. in T. ♄	virgo	7	11	2	li y not much
27	b	Dn. Caud. Leo	virgo	19	12	9	about this t
28	c	libra	1	0	M	9	but the end
29	D	Dn. Spica Vir.	libra	12	1	15	neth to Rain,
30	e	libra	24	2		23	

Rom. Calendar.
Foreign Account.

12 a
13 b
14 c
15 d
16 e
17 f
18 g
19 h
20 i
21 k
22 l
23 m
24 n
25 o
26 p
27 q
28 r
29 s
30 t
31 u
32 v
33 w
34 x
35 y
36 z
37 A
38 B
39 C
40 D
41 E
42 F
43 G
44 H
45 I
46 J
47 K
48 L
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52 P
53 Q
54 R
55 S
56 T
57 U
58 V
59 W
60 X
61 Y
62 Z
63 A
64 B
65 C
66 D
67 E
68 F
69 G
70 H
71 I
72 J
73 K
74 L
75 M
76 N
77 O
78 P
79 Q
80 R
81 S
82 T
83 U
84 V
85 W
86 X
87 Y
88 Z
89 A
90 B
91 C
92 D
93 E
94 F
95 G
96 H
97 I
98 J
99 K
100 L

Saturn at the beginning is South between 11 and 12, at the end he is South between 9 and 10 at Night. Jupiter rises about 8 at Night, and is South about 4 in the Morning. Mars riseth about 6 in the Morn. Venus riseth between 4 and 5 in the Morn. Mercury towards the end goeth to Combustion.

1	Ladovic.	receive out of Spain the Iorm,	1	7	32	4	27
2	Afcanius	or Ebro, yet Spain affords to the	2		41		19
3	Frederick	Atlantick the Duero, the Minho,	3		43		17
4	Othmarus	the Tajo, the Guadiana, the Gua-	4		45		15
5	Hugo	dolquiver, all considerable Ri- vers; and out of France the	5		46		14
6	Ott. Mart.	Mediterranean receives the <i>Rhone</i> , yet France affords to the	6		48		12
7	Elizabeth	Western or Atlantick Ocean, the <i>Loire</i> , the <i>Garonne</i> , the <i>Seyne</i> ,	7		49		11
8	Eugenius	and others; and from Germany, the <i>Rhine</i> , and many others are	8		51		9
9	Oblat. V.M.	carried into the North Sea:	9		52		8
10	Clement	the Nile indeed out of Africa	10	7	54	4	6
11	Chryfogon	both afford the Mediterranean	11		55		5
12	Johannina	a great Supply, but the Niger	12		57		3
13	Conradus	affords near as great to the A-	13		58		2
14	Guntherus	tantick Ocean The <i>Tiber</i> and	14	8	00	4	00
15	Ruffus	do seem to have all their supply	15		1	1	59
16	Adrian	from the Mediterranean, and	16		2		58
17	St. Adria	therefore make but an equal	17		4		56
18	Eligius	Return. The Danube, the Neister,	18		5		55
19	Libanus	the Boristhenes and Tanais are	19		6		54
20	Cassian	great Rivers running into the	20	8	7		53
21	Barbara	Black or Euxine Sea, which is	21		8		52
22	Sabina	part of the Mediterranean, but	22		9		51
23	Agath. M	these being very far distant from	23		10		50
24	Con. V.M	other Seas, it may reasonably	24		11		49
25	Cyprian	be supposed they have the	25	3	12	3	48
26	Elatia	greatest supply from the Med-	26		13		47
27	Damianus	iterranean, but the great River	27		14		46
28		<i>Euphrates</i> coming near both to	28		15		45
29		the Euxine and other parts of	29		16		44
30		the Mediterranean, & receiving	30	8	'6	3	44
31		many other Rivers from Coun-					
32		tries near to the Mediterranean,					
33		must be thereby concluded to					
34		receive a great quantity of those					
35		waters which descend from the					

December hath XXXI Days.

- New Moon the 5th day at 5 in the Morning.
- First Quarter the 12th day at 5 in the Morning.
- Full Moon the 19th Day at 5 in the Morning.
- Last Quarter the 26th Day at 4 in the Morning.

1	f	Dn. Laux. Au.	scorp.	13	M	35	I Moons rising.	The beginning expected to
2	a	Advent Sunday	scorp.	14		5		
3	a	Dn. Cor. Scor	scor.	2		10		
4	b	Dn. Dex. H. O.	scor.	7		29		
5	c	Dn. Sin. M.	scor.	28			I Moons setting.	sharp Winds, Δ Δ Δ Δ ♀ the new Moon and dark weather yet moderate for ♂ ♂ ♀ Season about the 11th
6	d	Dn. Cap. Sig t	capric.	1	A	15		
7	e	Dn. Cor. Bor. Wy	capric	25		37		
8	f	Dn. L. in M.	aquar.	7		5		
9	a	Sund. Advent	aquar.	2		3	I Moons rising.	4th days, Δ h ♀ windy turbulent weather is expected, plenty of Rain, Snow, and conmoist, and prod not very frosty windy and ro
10	b	h 8 14.	pisces			0		
11	b	Sund. Capric	pisces	2		1		
12	c	h 27.	aries	5		12		
13	d	h 3.	aries	20	M	50	I Moons setting.	♂ ♂ ♀ with Sleat, then for some light F Δ h ☉. But foggy and yiel with some dr but at the e the Month is cted to cold, sharp frosty weath
14	e	h 7.	taur.	2		9		
15	f	h 18.	taur.	18		3		
16	a	Sund. Advent	gem.	5		8		
17	a	Dn. Alha'or	gem.	15		5	I Moons rising.	cold, sharp frosty weath
18	b	Dn. Luc. P. G.	gem.	29		7		
19	c	Ember Week	canc.	12		2		
20	d	Dn. Pollux	canc.	2	A	4		
21	e	St. Thomas	leo	8		5	I Moons setting.	cold, sharp frosty weath
22	f	Dn. Cor. Leon	leo	21		7		
23	a	Sund. Advent	virgo	3		8		
24	b	Dn. Caud. Leo.	virgo	15		9		
25	c	St. Christ	virgo	27		10	I Moons rising.	cold, sharp frosty weath
26	d	St. Stephen	libra	8		11		
27	e	St. John	libra	20		1		
28	f	St. James	scorp.	2	M	7		
29	a	Dn. Laux. Bor.	scorp.	14		2	I Moons rising.	cold, sharp frosty weath
30	b	Sund. Advent	scorp.	27		3		
31	c	Dn. Cor. Scor	scor.	10		4		

December, 1705.

Saturn at the beginning is South a little after 9, at the end he is South between 7 and 8 at Night. Jupiter at the beginning is So. 20 between 2 and 3 in the Morning, and rises betwixt 6 and 7 at Night, at the end he rises between 4 and 5, Mars and Venus rise near together about 6 in the Morning.

Perlin Account	Rom. Kalen. dat.	Rom. aines days							
1	c	Valerius	Mediterranean, all which are	1	8	16	3	44	
2	d	S. Advent	carried to the Sinus Persicus, and	2		17		43	
3	e	Nicasius	o into the East or Indian Sea.	3		17		43	
4	f	Abraham	But how or wherever those	4		18		42	
5	g	Ananias	Vapours are carried after their	5		18		42	
6	a	Lazarus	being once raised, we must	6		18		42	
7	b	Rufus	conclude that betwixt and near	7		19		41	
8	c	Loth	the Tropicks, the Vapours are	8		19		41	
9	d	S. Advent	more plentifully raised than in	9		19		41	
10	e	St Thomas	colder parts, and wherever they	10	3	19	3	41	
11	f	30 Mart.	return, there is an endeavour	11		19		41	
12	g	Victor	towards an Equilibrium, viz.	12		19		41	
13	a	Ignacius	it more full to supply the more	13		19		41	
14	b	Christmas	empty. Now the great South	14		18		42	
15	c	S. Stephen	Sea, the Indian S., and the	15		18		42	
16	d	St. John	Atlantick, have not only Com-	16		18		42	
17	e	Indoctus	munication one with another,	17		17		43	
18	f	Jonathan	but they also reach towards and	18		17		43	
19	g	David	near the Poles, so that they	19	3	17		43	
20	a	Silverster	have their cold parts as well as	20		16	3	44	
21	b	Abel	hot; and if in these Seas be-	21		16		44	
22	c	S. S. p. Cor	twixt or near the Tropicks,	22		15		45	
23	d	Methusael	there be extraordinary Evapo-	23		15		45	
24	e	Simson	rations, yet these either return	24		14		46	
25	f	Epiphany	into themselves, or are inten-	25		14		46	
26	g	Juliana	sibly supplied by their large	26		13		47	
27	a	Echard	Communication with the colder	27		12		48	
28	b	Marcel.	parts. But from the Mediterra-	28		11		49	
29	c	Higinus	nean for the Reasons aforesaid	29	3	10		50	
30	d		of being extended betwixt such	30		9		51	
31	e		large Continents, and also inter-	31		8		52	
	f		mixt with Continents, Peninsu-			7		53	
	g		ls and Islands, there is abun-						
			dantly more Vapour raised in						
			proportion to its magnitude than						
			from other Seas, having but its						
			proportionable Return or pro-						
			bably much less, has no other						
			way of being supplied, but from						
			the Atlantick Sea.						

TABLE shewing how many Years purchase a Lease or Annuity (to endure for any number of Years under 33) is worth yearly, at Interest upon Interest, at Six in the Hundred, shewing plainly how to discount any Lease in being, and value of the Reversion after any number of Years.

The Use and Explanation of the T A B L E.			
The first Column, towards the left Hand sheweth the Years of a Lease, or Annuity, and right against each Year, is the Years, Months, and Tenth Parts of a Months purchase, that such a Lease or Annuity is worth. Example : Suppose a Lease or Annuity to continue 12 Years, and you would know how many Years purchase it is worth in present Money, look in the Table for Twelve Years of a Lease to the left Hand, and against the same you shall find 8, 4, 6, which sheweth that such a Lease is worth 8 Years, 4 Months, and 6 Tenth parts of a Months Pur- chase.			
Years of a Lease.	Years.	Months.	Tenth Parts.
1	0	11	0
2	1	9	9
3	2	8	1
4	3	5	9
5	4	2	5
6	4	11	1
7	5	7	0
8	6	2	7
9	6	9	9
10	7	4	3
11	7	10	7
12	8	4	6
13	8	10	3
14	9	3	6
15	9	8	5
16	10	1	3
17	10		
18	10		
19	11		
20	11		
21	11		
22	12		
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24	12		
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26	13		
27	13		
28	13		
29	13		
30	13		
31	13		
32	14		

AGAIN:

If you are to take or buy the Reversion of any Lease or Annuity, work thus; Suppose the Lease to be Thirty Years you find in the Second Table and Right Hand against 13 Years, 9 Months, and 2 Tenth Parts of a Months Purchase this it were worth were it in present Possession. But suppose be a Lease of five Years (more or less) before you come look in the Table against the five Years, and there you find four Years, two Months, and 5 Tenth parts of a Months purchase. Take this out of the Sum against Thirty, which is, 13, 9, 2. Remainder is, 9, 6, 7, which is 9 Years, 6 Months, and 7 Tenth Parts of a Month; and so much is the Reversion after five Years worth, the Remainder of Thirty Years

This is Useful and very Easy.

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UNDER, 1705.

The Second Part.

Containing the Eclipses ; the Suns Quarterly
Ingresses ; the Southing of the Seven Stars for every Fifth
Day of this Year ; with Directions for finding the Rising,
Southing and Setting of several Fixed Stars : Also Rules
and Tables for the Measuring of Board, Glass, Pavements,
or other superficial Measure ; as also to measure Timber :
and other Things worth Observation.

The Characters of the Twelve Signs, and what parts of the Body
they are said to govern.

Aries, Head & Face ; ♉ Taurus, Neck & Throat ; II Gemini,
Arms & Shoulders ; ♋ Cancer, Breast & Stomach ; ♌ Leo,
Heart & Back ; ♍ Virgo, Bowels & Belly ; ♎ Libra, Reins &
Loins ; ♏ Scorpio, Secrets ; ♐ Sagittary, Thighs ; ♑ Capri-
corn, Knees ; ♒ Aquarius, Legs ; ♓ Pisces, the Feet.

Characters of the Planets, with the Dragons Head and Tail,
♄ Saturn, ♃ Jupiter, ♂ Mars, ☉ Sol, ♀ Venus, ☿ Mer-
cury, ☾ Moon, ♀ Dragons Head, ♀ Dragons Tail.

The Aspects.

Conjunction, * Sextile, ☐ Quartile, Δ Trine, ♂ Opposition

Brief Chronology of Memorable Things, to this Year, 1705.

THE Creation of the World	5654
Noahs Flood	3998
The destruction of Sodom and Gomorrah	3607
The destruction of Troy	2887
Brute entred this Island	2812
The Building of London	2812
The Building of York	2694
The Building of Leicester	2648
The building of Canterbury	2597
The building of Stamford	2568
The building of Rome	2457
The destruction of Jerusalem by T. Vesp.	2618
England first received the Christian Faith	1525
C	The

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Since

The Tower of London built
 Duke William conquered England
 Westminster Hall was built
 The Bible divided into Chapters
 The Invention of Guns
 The Art of Printing
 St. Pauls Steeple fired by Lightning
 New Star in Cassiopeia
 A great Snow fell Feb. 4.
 Tilbury Camp on St. James's day
 A Plague in London, whereof dyed 30598
 Gunpowder Treason, November 5.
 A great Snow, and Smithfield paved
 A great Plague in London, whereof dyed 35418
 The Long Parliament began, November 3.
 King Charles the First was Murdered
 Two Comets appeared in December and March
 The doleful Plague that followed them
 London was burnt, September 2, 3, 4, 5
 The last great Snow
 The wonderful Comet in December
 A Comet in August
 The terrible Fire in Wapping, November 19.
 A great Earthquake, October the 6th
 The last great Frost
 The Rebellion in the West
 The seven Bishops sent to the Tower, June
 The Prince of Orange Landed, November 5.
 King William went to Ireland with an Army, June
 The French Fleet beaten by the English and Dutch, &c.
 Our Most Gracious Queen Mary Dyed, Dec. 28.
 The Horrid Conspiracy to Assassinate His Majesty King
 William, and to bring in the French, was happily disc.
 The Peace concluded with France
 War again proclaimed against France, &c.
 The Glorious Victory obtained by the Confederates,
 against the E. of Bavaria and the French near the
 Danube; where besides a vast number slain, were
 taken upwards of 10000 Prisoners, August
 Gibraltar taken by the English & Dutch Fleet, July

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Of the Eclipses this Year 1705.

THere happeneth to the Inhabitants of this Terraqueous Globe only two Eclipses this Year, and both of them of the Sun; but neither of them visible here in *England*.

The first of these Solar Eclipses is on the 11th day of *May*, about 8 at Night, and cannot be seen here, neither can it be seen in the Streights of *Magellanica*, as some possibly may tell us; but will appear about the Islands of the *Green Cape*: And from thence as you sail to the *Caribbee Islands*, amongst which are *Barbadoes*, *Antegoa*, &c. it will appear very great; as also about *Jamaica*, the *Isthmus of Panama*, and, all the middle parts of *America*; also in the great South Sea on the South of *California*.

The second Eclipse is *November* the 5th, betwixt 1 and 2 in the Afternoon, but by reason of the *Moon's* great Southern parallax cannot be seen here, nor yet in *France*, *Spain* or *Portugal*, as some may intimate, but may be seen on the Coast of *Ginea*, and South from thence to the *Cape of Good Hope*. It will appear great about the Island of *St. Helen*; and from thence to the Coast of *Brasile* in *America*, on the Eastern parts thereof it will appear great.

These Eclipses (if they may be so called) are in themselves very great, happening very near the Nodes, but not being visible to us cannot in the least affect us: I shall therefore forbear telling you any dreadful Stories of their Effects. If they signify any thing (more than being about 2 Hours as it were clouded, or in a more dusky light than ordinary) it must be those parts where they appear greatest, which are about the places above-mentioned. But I cannot think that Eclipses of the Sun (as they are called) can have such Effects as Astrologers tell us; for in strictness there is no such thing as an Eclipse of the Sun; for what is generally so called is only an Eclipse of the Earth, it is none other but part of the Earth being shadowed by the Moon; and what detriment is it to the Sun the shadow of the Moon fall upon the Earth, that Astrologers should make so much noise of the Sun's being Eclipsed in his House, his Exaltation, his Dignities, &c. or in an Angle, or in an House signifying this or that, when at the same time he is not Eclipsed at all? For the Moon doth at all times (except when she herself is Eclipsed) cast her shadow into

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one part or other of the Universe ; and if it happen to fall upon the Earth can the Sun have any detriment thereby ? But 'tis observed, the chief business of some Astrologers has been and is to affright, astonish and amuse the vulgar people ; and when the Heavens are fancied not to appear dreadful enough then they tell us of some former terrible Predictions of some absurd false Prophet or other, such as *Lilly*, *Holwell*, &c. Was ever greater Impudence, Absurdity and Falshood, published to the World, than *John Holwell's Catastrophe Mundi*, and his Appendix thereto, Printed in the Years 1682 and 1683. Which I took notice of in my Almanack for the Year 1688 and also in 1702, where I mentioned a few of his many false Predictions, yet have these his false Predictions and Absurdities been quoted by others as fit to be credited. I have no room to mention the hundredth part of his Absurdities but shall give you one little piece of his Predictions : In his Appendix, having calculated the King of France his Native amongst other matters, mentioning a bad Direction which should take place in the Year 1684, he thus goes on ; " 'Tis also a very bad Direction, and brings along with it a great deal of infelicity to him, a great decay in his Fortune. " Now about this time he loses all his former Honour both Land and Sea ; he will likewise undergo many Dangers all that he will take in hand for above these seven Years he should live so long, which I am perswaded he shall not prosper ill ; let him beware of being cheated of his Life about *August* next ; if he lose his Life by any violent means then any one may see there is some Truth in Art ; if he doth escape that time with his Life, he will be in great peril thereof ; and if it be preserved, it will be for a while, but he will become either banished or imprisoned soon after, but whether by the *Turk*, or his own Subjects, I leave to time to determine : But sure I am that he will become (if he escape with Life then) one of the miserablest Prisoners in *Europe*. And a little after, I have good Reason to believe that he, if he lives to see but two Years, will be driven from his Seat by his own Subjects ; and if he doth dye before, as I believe he will, then the next King will be deposed so, and the *Turk* will invade his Country. Thus bold and false Predictor. And as to the famous Mr. *Lilly*, the

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insignificant Hieroglyphicks published by him, and afterwards by *Holwell*, with their most absurd and notoriously false Predictions published with them, must now and then be brought upon the stage to amuse the too credulous multitude. Tho' Mr. *Lilly* by consulting the malevolent Stars that in his time hovered too long about *Westminster*, did thereby hint to the People the Designs and Influences of that Congeries of Malevolents, and by that means prepared the over-ready and too credulous multitude to receive and welcome such Influence; yet take him out of such confederacy, and you may find him as much failing as any. What silly Stuff did he, and others, write of the great Eclipses of the *Sun* in 1632, and 1654, which made Thousands of Ignorant People bring their Cattle out of the Fields into their Houses, Barns, &c. for fear of they knew not what; and gave occasion of having themselves ridiculed, and Ballads made and sung of them all the Kingdom over. Mr. *Lilly* in his Collection of Prophecies, Printed in the Year 1645, in his Explanation of a long Prophecie; viz. *From when did the Tale begin, &c.* when he comes to the words, *Men choose a Pope who best choose can, More than a K. more than Man*: "Herein (says he) he alludes to Episcopacy and Bishops, whom we in *England* have now for ever excluded; so that now to maintain or choose a Bishop, he must be more than a K. or King, therefore this part of the Prophecie is verified in our time, for certainly (observe his Confidence) neither in *England* or *Scotland* will ever be any more Bishops: And upon the next words, still explaining the meaning of the Prophet, says, He foresaw the hate which in time People would bear to the very name of a Bishop; so that here he saith, We should equally detest the name of a Bishop, as much as Antichrist. And towards the end, out the word *Amen*, and some other words and numbers, having collected Letters and Figures sufficient to produce the Number 1642 exactly, says, "And this was the Year which gave *Amen* to Episcopacy in *England*. But it pleased God let this poor Man live to see the Re-establishment of Episcopacy in *England*, and to live many Years after. Yet notwithstanding the falsity of these, and most other of their Predictions, (unless where they had a Confederacy) these Men had a greater share of Boldness and Confidence than others,

SAUNDER, 1705.

others, must still be had in Admiration. The Stars, or their Interpreters, have not this last Year had that foresight as some have expected. Great things were to have been done in *Flanders, Italy and Spain*, but little to purpose in *Germany*. The Stars could not foresee the March of the *English* and Dutch Forces into the Heart of *Germany*, under the Command of the Victorious General the Duke of *Mariborough*, much less the Success thereof. God send Her Majesties Forces good Success for the future, and let us patiently wait to hear the good News.

Of the Four Quarters of the Year, and first of the Spring.

The Spring Quarter begins the 9th day of *March*, 6 hours, 46 min. after Noon, making equal day and night to all the Earth, (except under the *Poles*). In *April* you may freely bleed, bathe or purge, if there be occasion. In *May* it is wholsome to drink Clarified Whey. Now Drink but little Wine; and forbear such Meats as are of a hot Quality.

Of Summer.

Summer Quarter begins *June* 10. at 7 hours, 46 min. After Noon, making the longest Day and shortest Night to all the Inhabitants of this Northern Hemisphere. In *June* abstain from such meats as ingender raw and moist humours. In *July* beware of bleeding or purging. In this and the next Month drink but little Wine; and refrain immoderate Exercise.

Of Autumn.

Autumn begins *September* 12th, 28 min. after 9 in the morning, making again equal Day and Night. In *September* eat moderately of all such Meats and Fruits as your Stomach desires. In this Month or the next you may bleed or purge, but in *November* Blood decreaseth. Beware now of taking Cold.

Of Winter.

Winter Quarter begins *December* the 10th, at 11 at Night, making our shortest Day and longest Night. In *December* by Melancholy and Phlegm do much increase. 'Tis not good to bleed or purge. To drink Wine now and then, and to use Spices in your Diet is very good. The same observe in *January*. In *February* you may take Pills to purge the Head. Bathe or Bleed, if there be occasion.

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or their Earth's Motion. He argues if the Earth have an Annual Motion how comes it to pass that the Pole of the World has always like Elevation? I Answer, That the Poles (as they are called) are Points in the Earth, and are only fancied to be in the Heavens; and therefore no difference of Elevation can be to the same place. That there is some small difference of Altitude in the Fixed Stars; for his further Satisfaction let him read *Galilei's* his *Systema Cosmicum*, and Mr. *Hooke's* Attempt, mentioned in my last. For his Argument against the Diurnal, let him please to shoot an Arrow, or Bullet, perpendicularly from some Carriage at Land, or Vessel at Sea, when in Motion, and observe the different falling of such Arrow or Bullet; and let him leave his Logical Arguing, and make Experiment.

finding several *Almanacks* have made Mistakes in the *Dominical Letter* and *Epact*, to the *Gregorian* or *Foreign Account*, which altered in the Year 1700; and the last Years *London Almanack* by *W. Salmon*, giving us the *Dominical Letters* to the *Numbers*, of the *Solar Cycle*, or *Circle*, being in the same Mistake, and telling us, That when the *Golden Number* is 1, 4, 7, 10, 13, 16, 19, in the *Foreign Account*, the *Epact* is the same; though (according to his Rule of Subducting 11, from the *Epact* of the Old Account to find the *Epact* of the *Gregorian*, or *New Account*.) it can never be the same with the *Golden Number*. I have here given the *Epacts* answering the *Golden Number*, and the *Dominical Letters* answering the *Circle* of the Years in both Accounts, which in the *Foreign Account* hold but for this Century of Years, with their *Dominical Letter* and *Epact* altering again in the Year 1800.

Golden Number	English Epact	Foreign Epact	Anno Dom.	Engr. Lett.	Fore. Lett.
			1700	1	G F D C
			1701	2	E B
			1702	3	D A
			1703	4	C G
15	15	4	1704	5	B A F E
16	26	15	1705	6	G D
17	7	26	1706	7	F C
18	18	7	1707	8	E B
19	29	18	1708	9	D C A G
1	1	30	1709	10	B F
2	2	11	1710	11	A E
3	3	22	1711	12	G D
4	14	3	1712	13	F E C B
5	25	14	1713	14	D A
6	6	25	1714	15	C G
7	17	6	1715	16	B F
8	28	17	1716	17	A G E D
9	9	28	1717	18	F C
10	20	9	1718	19	E B
11	1	20	1719	20	D A
12	12	1	1720	21	C B G F
13	23	12	1721	22	A E
14	4	23	1722	23	G D
			1723	24	F C
			1724	25	E D B A
			1725	26	C G
			1726	27	B F
			1727	28	A E

to find the Rising, Southing and Setting, of several fixed Stars heretofore mentioned.

In the Tables following you have first the seven Stars Southing for every fifth day: in the second Table is set the difference betwixt the Southing of those Stars therein named, and the seven Stars, which being added to the time of the seven Stars Southing,

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giveth theirs. In the same Table is also set their semidiurnal Arch thereby to find the rising and setting of the said Stars. Suppose it is required to know what time the great Dog-star, called *Syr* will be South the 11th. of *February*? I then find the Seven Stars South at 5 ho. 10 min. to which I add 3 ho. 2 m. the difference annexed to the great Dog-Star, and it makes 8 ho. 12 min. being the time of its Southing the said 11th of *February*. If to this Southing you add the Semidiurnal Arch 4 ho. 31 min. it gives the time of its setting at 12 ho. 43 min. but if you subtract the Semidiurnal Arch from the Southing, it leaveth the time of its Rising. The like may be done by any other of the said Stars.

For the better distinction of the several sizes of Stars they are divided into six several magnitudes, The biggest and brightest Stars are called Stars of the first Magnitude. Those one size inferior in light, and bigness are called Stars of the second Magnitude &c. Now for the better knowing the Stars hereafter-mentioned Note, that the great Dog-star, Lions Heart, Virgins Spike, and the bright star of *Lyra*, are accounted stars of the first magnitude, are also *Aldebaran* and *Arcturus*, but they are Red stars, much of the colour of *Mars*, all the rest in the Table are of the second magnitude, except the Northern and Southern *Aff*, which are fifth Stars being of the fourth magnitude.

A Table shewing the Hour and minute of the Seven Stars coming to South, every 5th day of this year, 1705.

Months	Days of the Month.											
	I		6		11		16		21		26	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
January	7	A 57	7	A 36	7	A 14	6	A 53	6	A 32	6	A 11
February	5	A 49	5	29	5	10	4	51	4	32	4	1
March	4	A 03	4	13	4	23	3	42	3	46	2	2
April	2	A 71	1	48	1	30	1	11	0	52	0	3
May	0	A 14	11	M 54	11	M 34	11	M 14	10	M 53	10	M 33
June	10	M 89	9	47	9	26	9	68	8	45	8	2
July	8	M 57	7	45	7	24	7	46	6	45	6	2
August	6	M 35	5	45	5	26	5	84	4	49	4	3
September	4	M 103	3	52	3	34	3	17	3	02	2	4
October	2	M 22	2	31	1	44	1	25	1	50	0	4
November	0	M 22	0	21	11	A 39	11	A 16	10	A 54	10	3
December	10	A 119	9	A 49	9	26	9	48	8	41	8	2

A Table

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able shewing the difference in hours and minutes between the coming to south of several fixed stars, and the seven stars, also their semi-diurnal Arches thereby to find their rising and setting.

Names of the Stars.	Diff. south.		semid. Arches		Names of the Stars.	Diff. south.		semid. Arches	
	b.	m.	b.	m.		b.	m.	b.	m.
Baran B. eye	0	49	7	29	Lions heart, East	6	23	7	13
Orions Girdle	1	51	5	54	Virgins Spike	9	40	5	9
Dog. Syrius	3	24	31	Arcturus	10	32	8	6	
1st. head II	3	46	9	47	South ballance	11	54	40	
Dog. Procyon	3	54	5	32	North ballance	11	31	5	16
2d. head II	3	57	9	4	Northern Crown	11	52	8	55
thern Aft.	4	56	8	12	bright * Lyræ	14	57	sets not	
thern Aft.	4	58	7	40	bright * Vulturis	16	66	42	

followeth some few Rules, and Tables, for the mensuration of Superficies and Solids.

Of the Mensuration of superficial or flat measures, such as Board, Glass, Pavement, Hangings, &c. it will be necessary to know how to measure any plain superficial figure, as Square, Long-square, or Parellelogram, Triangle, Circle, of the Circle, &c. examples of all which do here follow.

I. How to measure a Square.

Let there be a square floor, or pavement, the whereof are each of them 5 feet 6 inches, this required to know how many square, or superficial feet are contained therein. First (a plain way to avoid Fractions will be to) Reduce the whole side into inches, 5 feet, 6 inches, 66 inches, multiply 66 by 66, and the Product will be 4356, the superficial content in inches then divide 4356 by 144 (the square inches of a foot) and the quotient will be 30 feet, and 4 inches remaining, which is the number of inches in one quarter of a foot; so that in such a square is contained 30 feet and one quarter. See margin.

$$\begin{array}{r}
 66 \\
 66 \\
 \hline
 396 \\
 396 \\
 \hline
 4356 \\
 4386 \\
 144 \\
 \hline
 30
 \end{array}$$

II To

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II. To measure the Long-square or Parallelogram.

Suppose there be a Pavement whose length is 72 feet, and breadth 12 feet, how many feet is contained therein.

Multiply 72 in length, by 12 the breadth, and the product will be 864, and so many superficial feet are contained in that Pavement.

III. To Measure a Long Superficies, which is broader at one end than at the other.

Let there be a superficies whose length is 72 inches, the breadth of the greater end 50 inches, and the breadth of the lesser end 34 inches, and let it be required to know how many feet are contained therein. First, add the breadths of both the ends together, which maketh 84, take half thereof, which is 42, which being multiplyed by 72 the length, the product will be 3024 the content in inches, which being divided by 144 (the inches in one foot) the Quotient will be 21 feet, and nothing remaining, so that there is exactly 21 feet in such a superficies.

IV. How to measure Triangles.

All Right lined Triangles are measured by this general Rule. Multiply half the length of the Base by the whole Perpendicular. Or, the whole length of the Base by half of the Perpendicular.

Suppose the Base of a Triangle be 44, and the Perpendicular 26, what is the Content.

Multiply 44 (the Base) by 13, (half the perpendicular) Product will be 572 : Or 22 (half the Base) being multiplyed by 26, (the whole perpendicular) the Product will be 572 before, which is the Content of such a Triangle.

V. All Trapezias, or Figures with four unequal sides ; Multangular, or many sided irregular Figures, must be divided into Triangles, and those Triangles measured as before is said, and their sums added together will give the content of such irregular Figures. And note, that the least number of Triangles which any plot or irregular figure may be reduced, will be by two than the number of the sides of such irregular figure.

VI. How to measure Circles, and parts of Circles.

The Diameter of every Circle hath such proportion to its circumference of the same Circle as 7 hath to 22. The

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Diameter being given to find the circumference, you must multiply the Diameter by 22, and the product being divided by 7, the Quotient will be the circumference. Thus, suppose the Diameter of a Circle be 14, multiply 14 by 22, the product will be 308, which being divided by 7, the Quotient is 44, which is the circumference of that Circle whose Diameter is 14.

Having the Circumference to find the Diameter.

Multiply the circumference given by 7, the product divide by 22, and the Quotient will be the Diameter. Let the circumference of a circle be 60, multiply 60 by 7 the product will be 420, which being divided by 22, the Quotient will be $19\frac{2}{11}$ or $19\frac{2}{11}$ which is the Diameter.

To find the Area or Superficial content of a Circle. Multiply half the circumference by half the Diameter, the product will be the content of the Circle: Thus, Let the circumference be 44, the half whereof is 22, and the Diameter $19\frac{2}{11}$ the half whereof is $9\frac{1}{11}$, by which multiplying 22, the product will be $286\frac{4}{11}$ which is the superficial content of such a Circle; or,

By the Diameter to find the Area of the circle. First, square the Diameter, multiply the square by 11, and divide the product by 14, the Quotient is the superficial content of the circle.

Let the Diameter be as above $19\frac{2}{11}$ the square whereof is $376\frac{4}{11}$ this multiplied by 11 produceth 4140 $\frac{4}{11}$ which being divided by 14 the Quotient is $286\frac{4}{11}$ as above, being the superficial content of such a circle.

To measure the superficial content of half the circle, the semicircle, or of any other section of a circle, more or less, having the semidiameter given.

Multiply half of the compass thereof by the semidiameter of the circle, so shall you have the content.

Of the Mensuration of Solids.

Plain or Superficial Measure consisteth of two dimensions, namely, length and breadth; so Solid measure consisteth of three dimensions, namely, length, breadth and thickness.

To measure any kind of Timber, either Square, Triangular, Round, or of any other Fashion, provided it be straight and equal all along.

Cast up the superficial Content at the end thereof, by the method before going, for the finding the Content of the Square,

Triangle, Circle, &c. which Superficial Content being multiplied

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plied by the length of the Piece, will give you the Solid Content thereof. *Example.* Let there be a piece of Timber, (or other solid matter) whose breadth is 18 inches, its depth 13 inches, and length 142 inches, to find how many solid feet contained therein. First, multiply the breadth 18 by the depth 13, the product is 234, being the superficial inches at the end of the piece. Secondly, multiply this 234 by 142 the length of the piece, and the product will be 33228, the solid Content in inches. Thirdly, divide 33228 by 1728, (being the number of cubical inches in one solid foot) and the quotient will be 19 feet, 396 inches remaining, which is 19 solid feet, and almost a quarter of a foot, and so much is the solid content of such a piece.

A 2d Example of a round piece. Let there be a round piece of Timber whose compass is 60 inches, and the length 20 feet, (240 inches) and let it be required to find the solid content thereof. First, by the help of the circumference 60, find the Diameter (as before is taught) by multiplying 60 by 7, and dividing the product thereof by 22, so shall you find the Diameter to be 19 inches. Then by either of the ways before taught, viz. by multiplying the circumference by $\frac{1}{2}$ the Diameter; or by (squaring, or) multiplying the Diameter in it self, and multiplying that square by $\frac{1}{4}$, and dividing the product by 14, the superficial content of the end of such a piece will be found to be $286\frac{4}{7}$ inches. Now multiply this $286\frac{4}{7}$ by the length of the piece 240, and the product will be 68727 $\frac{3}{7}$ the content in inches, which being divided by 1728, the quotient will be 39 feet, and $\frac{3}{4}$ of a foot, and 39 $\frac{3}{4}$ inches remaining, which is the solid content of such a piece of Timber. But had this piece of Timber been measured by that egregious and false way of taking $\frac{1}{4}$ part of the Girth for the side of the square, it would have been found to be but 31 feet and $\frac{1}{2}$ of a foot, which is above $\frac{1}{3}$ part less than the truth, it being 39 feet, &c above.

In behalf of that erroneous way many do plead, that in round Timber there is great loss in chipping to bring it near a square, therefore that way may be allowed; but this is very unequal, in great Timber there being little loss, in small Timber more. Let therefore the quality be considered, rather than make unequal amends by a false quantity.

Of the Mensuration of Tapering Timber, either round or squared, (such as)
Frustrums of Cones and Pyramids.

First find the superficial Area of each end of the piece, and multiply the one Area by the other. Secondly, or

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Solid Timber, its depth, solid feet, by the diameter at the lesser end, the solid Content will be 19, almost such a piece of Timber whose Circumference at the greater end is 66 inches, at the lesser end 44 inches, and the length 20 feet, and it is required to find how many solid feet contained therein. First, the Area of the Circle at the greater end (by multiplying half the Circumference 33 by half Diameter $10\frac{1}{2}$) will be found to be $346\frac{1}{2}$, and the Area of Circle at the lesser end will be 154: These multiplied together do produce 53361. Secondly, out of this product extract the Square Root, which is 231, (for 231 being multiplied itself produceth 53361). Thirdly, add the two Areas, and Square Root 231 together, and the sum of them will be 731 $\frac{1}{2}$. Lastly, multiply 731 $\frac{1}{2}$ by 80 inches, (one third of the length) and the product will be 58520, being the inches contained therein, which inches being divided by 8, the Quotient will be 33 feet, and 1496 inches remaining, which is 3 quarters of a foot, and almost half a quarter.

Now to find the Content of Tapering Timber, other ways than is taught above.

These pieces being parts of Cones or Pyramids, their Content may be found by seeking the Content of the whole Cone or Pyramid, (of which they are part) and the Content of that which is wanting, for that part being subtracted from the whole, the remainder must be the Content of the part required. Now the way to find the content of a Cone or Pyramid is, multiply the superficial Content of the Base by one third of the length; and to find the length of the top part of a Cone or Pyramid which is wanting; say thus, As the difference between the sides, or Diameters of the two ends, to the length between them; so is the side, or Diameter of the greater end, to the whole length. Example, of the piece before mentioned, the greater end is 66 inches about, and the lesser end 44; the Diameter of the greater end will be 21, and the Diameter of the lesser end will be 14, and their difference is 7, before say, If 7 give 20 feet what will 21 give? Answer, 60 feet, being the whole length of the Cone: Now the superficial content

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content of the Base of this Cone, (being $346 \frac{1}{2}$ inches) multiplied by 240 inches, (one third part of the length of the whole Cone) produceth 83160 inches, the content of the whole Cone. And the superficial content of the lesser end, (which is Base, of the top (or wanting) part of the Cone) which is being multiplied by 160, (one third part of the length of top (or wanting) part) produceth 24640 inches, the content of the wanting part, which being subtracted from 83160, content of the whole Cone) the remainder is 58520 inches, content of the part required, being the same as before.

Here followeth Tables ready calculated for the Measuring Squared or Round Timber, which is supposed to be cut all along: Their use is thus, seek the side of the Squared, or the compass of the Round Timber, in the first, third or fifth column of the Tables, and against it, in the next column you have the length of a solid foot. Thus, the side of a squared piece of timber being 20 inches, the length of a solid foot will be 4 inches and 3 tenth parts of an Inch: And the compass of a round piece, being 80 inches the length of a solid foot will be four be 3 inches, and 39 hundredth parts of an Inch.

A Table, shewing how much in length will make a Solid of any Square Stone or Timber: The side of the Square being given in inches, from one inch to 36 inches square.

Side of the Square.	Length of a solid foot.	Side of the Square.	Length of a solid foot.	Side of the Square.	Length of a solid foot.
Inch.	Fc. Inc. 10ths	Inch.	Inc. 10th.	Inch.	Inc. 10th.
1	144 0 0	13	10 2	25	2
2	36 0 0	14	8 8	26	2
3	16 0 0	15	7 6	27	2
4	9 0 0	16	6 7	28	2
5	5 9 2	17	5 9	29	2
6	4 0 0	18	5 3	30	1
7	2 11 2	19	4 8	31	1
8	2 3 0	20	4 3	32	1
9	1 9 3	21	3 9	33	1
10	1 5 3	22	3 5	34	1
11	1 2 3	23	3 3	35	1
12	1 0 0	24	3 0	36	1

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Table shewing how many inches in length will make a foot solid, of any round piece of Timber or Stone, the Girt being known, from 12 inches compass to 100.

Com.	len. of a foot		Com.	len. of a foot		Com.	len. of a foot	
	Inch.	100 p.		Inch.	100 p.		Inch.	100 p.
1	179	46	41	12	92	31	4	31
2	150	80	42	12	31	72	4	20
3	128	49	43	11	74	73	4	08
4	110	79	44	11	31	74	3	97
5	94	31	45	10	72	75	3	86
6	84	82	46	10	26	76	3	76
7	75	14	47	9	83	77	3	66
8	67	02	48	9	42	78	3	57
9	60	15	49	9	04	79	3	48
10	54	29	50	8	69	80	3	39
11	49	23	51	8	35	81	3	31
12	44	85	52	8	03	82	3	23
13	40	90	53	7	73	83	3	15
14	37	69	54	7	42	84	3	08
15	34	74	55	7	18	85	3	01
16	32	12	56	6	92	86	2	94
17	29	79	57	6	68	87	2	87
18	27	70	58	6	45	88	2	80
19	25	02	59	6	24	89	2	74
20	24	13	60	6	03	90	2	68
21	22	60	61	5	84	91	2	62
22	21	21	62	5	65	92	2	57
23	19	92	63	5	47	93	2	51
24	18	78	64	5	30	94	2	46
25	17	74	65	5	14	95	2	41
26	16	76	66	4	98	96	2	36
27	15	86	67	4	84	97	2	31
28	15	04	68	4	70	98	2	26
29	14	18	69	4	56	99	2	22
30	13	57	70	4	43	100	2	17

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